

SASKATCHEWAN WHEAT POOL

VARIETY TESTS

1960

A detailed illustration of several wheat stalks with long, slender leaves and mature, golden-brown grain heads. The stalks are positioned on the left side of the cover, extending upwards and slightly to the right.

25th
YEAR

SASKATCHEWAN WHEAT POOL

VARIETY TESTS

WHEAT, OATS, BARLEY and RAPE

1960



Published by

SASKATCHEWAN WHEAT POOL

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FOREWORD

BY THE PRESIDENT OF THE SASKATCHEWAN WHEAT POOL

The year 1960 marks the twenty-fifth year in which the Saskatchewan Wheat Pool has tested grain varieties on a province-wide scale. The project was begun in the depths of the depression and has survived all the changing conditions since that time. Many varieties tested during the early years have since faded into oblivion, replaced by new and better adapted varieties. However, this has not been true of the young farm men and women who conducted variety tests throughout the province during those years. Many of them have, in later life, made a notable contribution to their communities and to the agricultural industry. At the end of this book is a list of names of supervisors who conducted the original tests in 1935. While it is not possible to trace the careers of all, a considerable number have brought renown to themselves and to their province. The list includes a department head at the University of Alberta, a former president of the Canadian Seed Growers Association, numerous graduates of the University of Saskatchewan, several men who served as delegates of the Wheat Pool, and numerous agricultural and co-operative leaders. Similar records have been achieved by supervisors of other years.

The value of the project is not confined to the statistical information obtained, but also includes the training of young farm men and women for greater responsibilities in later life.

On behalf of the Saskatchewan Wheat Pool I wish to express sincere appreciation to the supervisors of this year's tests, for their efforts and enthusiasm, which contributed so much to the success of this project.

Chas. G. Gilling

Introduction

This report summarizes the results of more than three hundred cereal variety tests located throughout the grain growing area of the province during 1960. The tests are designed to compare the value of several grain varieties grown side by side under various growing conditions which exist in the province. Each test is conducted by a young farm man or woman who does the work on a voluntary basis.

The results have been assembled in this booklet in such a way that a reader who is interested in a particular area or a particular crop can readily find the section dealing with it. A detailed table of contents shows the page number of each section. An alphabetical index at the end of the booklet will assist the reader to find any individual test. For quick reference, yield information in chart form is given on page 13 for wheat, page 31 for oats, page 40 for barley, and page 56 for rape. A brief summary of conclusions can be found on page 8.

The following table shows the types of tests conducted in 1960 and the varieties included in each:

Project	No. of Tests	Varieties
Wheat.....	122	Thatcher, Canthatch, Selkirk, Pembina, Lake.
Oats.....	49	Garry, Rodney, Exeter, Glen, Russell.
Barley.....	115	Husky, Jubilee, Hannchen, Betzes, Palliser.
Rape.....	30	Golden, Regina II, R-1, Arlo, Polish.
Total.....	316	

ORGANIZATION OF THE TESTING PROGRAM

Selection of the varieties to be tested, and planning for the project was done with the advice and help of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance was given by Dr. W. J. White, Head of the Department and by Drs. D. R. Knott and E. N. Larter. Threshing, summarizing and statistical analysis were carried on at the Head Office of the Wheat Pool under the direction of A. D. McLeod, B.S.A.

In planning the project an attempt was made to locate tests with reasonable uniformity throughout the grain growing area of the province. The map on page 5 shows the actual distribution of tests in 1960. Each individual test was conducted by a young farm man or woman selected for the work by the Wheat Pool delegate in each sub-district. The interest and enthusiasm of these young people contributed substantially to the success of the project.

Seed and equipment for each test were prepared at the Head Office of the Wheat Pool and mailed to the supervisors with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. A rain gauge was supplied to each supervisor and a part of his duties was to measure and record the amount of rainfall during the four-month growing season. In the fall each test was harvested, dried, wrapped in paper and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared on the basis of threshing results together with information gained from reports completed by supervisors and delegates.

DESCRIPTION OF TESTS

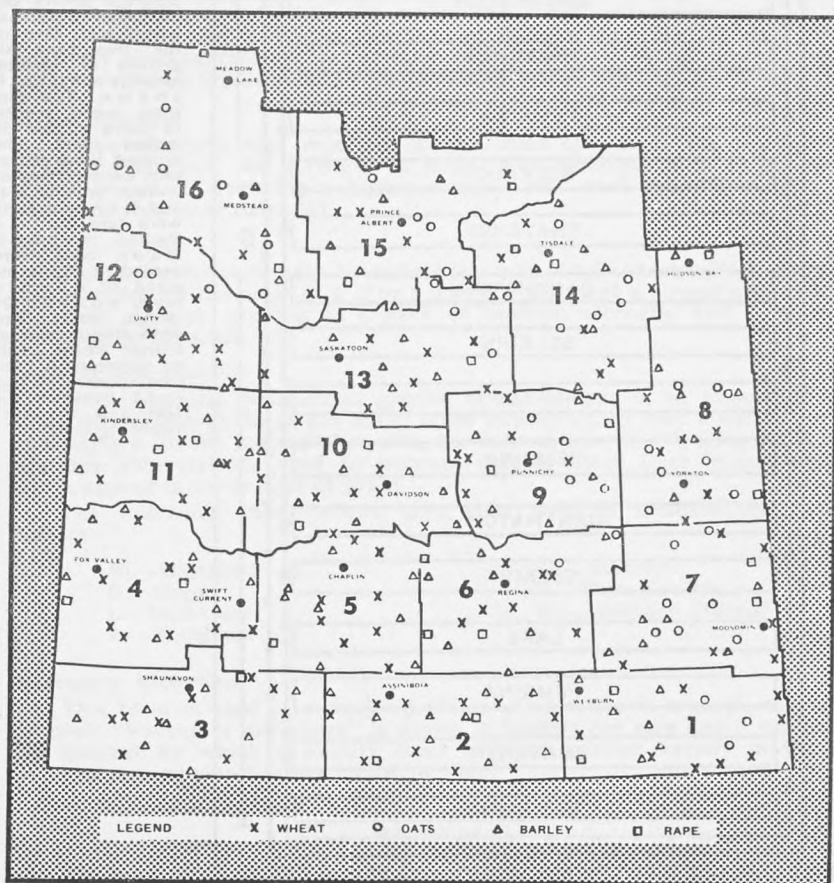
The diagram on page 6 shows the layout of a typical wheat test. Barley and oat tests were similar in size and plan but rape tests were somewhat different. The wheat, oat and barley tests consisted of 44 rows, each 16½ feet

long and spaced 12 inches apart. Five varieties were included in each test and each variety was repeated (replicated) four times. Each replicate included a pair of rows, to give a total of 40 test rows. In addition, two rows were seeded at each end of the test for protection purposes. The whole test was surrounded by a double row of winter wheat. When harvesting, each pair of test rows was made into a single sheaf, and the twenty sheaves were each threshed and weighed separately.

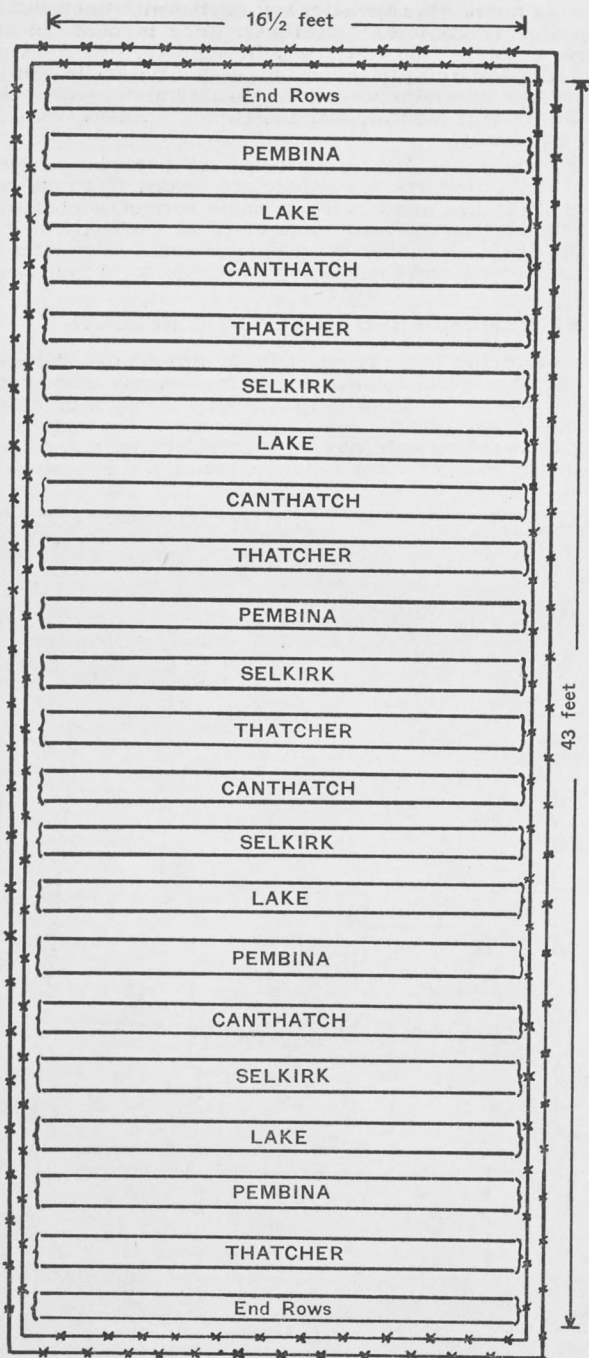
Because of the busy nature of rape plants it was not possible to seed the rows 12 inches apart. The rape tests were therefore seeded in single rows, 16½ feet long, spaced 24 inches apart, with a single row of winter wheat between. A single protection row of rape was seeded at each end, and the whole test was surrounded by a double row of winter wheat. Five rape varieties were included in each test and each variety was replicated four times.

FACTS TO BE REMEMBERED IN READING RESULTS

Growing conditions and the hazards which limit grain production vary widely from one area of the province to another and from one year to another. In some areas crop hazards such as rust, frost, sawfly damage or drought can be expected to occur in most years. In some other areas the frequency of occurrence or severity of these hazards may vary considerably, depending on particular conditions in any one year. For example, the area east of the third



Map showing location of tests in 1960



PLAN OF TEST

The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of winter wheat. Oat and barley tests were laid out in a similar manner. Rape tests were seeded in single rows, spaced 24 inches apart, but with single rows of winter wheat seeded between. A two-foot pathway was left between the test and the surrounding field.

meridian and south of township 30 is often referred to as the rust area, yet in 1954 rust extended as far north-west as North Battleford. Similarly, frost damage may be expected to occur with some regularity in northern areas, yet in 1950 crops over most of the province suffered severe frost damage. When considering the best variety to be grown at any location, a grower must consider the possibility of occurrence of various hazards and select varieties which have the necessary resistance to these hazards.

Because of the large number of tests in this project, some grouping was necessary for purposes of averaging. The province was divided as shown on the map on page 13. The division lines are somewhat arbitrary but in general the areas shown represent those areas in which some particular crop hazard is predominant or in which that hazard can be expected to occur fairly frequently. The areas used for oat tests and rape tests varied somewhat from those for wheat and barley. The map on page 31 shows the areas for oat tests while that on page 56 shows areas for rape tests.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 8; Oats No. 15; Barley No. 23; Rape No. 29. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as difference in soil type, climatic conditions and date of seeding.

Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3 where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.

Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

Bl.—Bleached
G.—Green
I.—Immature
S.—Shrunken

St.—Starchy
T.—Thin Kernels
W.—Weather Stained

Necessary Difference

This term is used in comparing yields of varieties in a single test or in an area. "Necessary difference" is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows

average rainfall by Wheat Pool districts for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1—AVERAGE MONTHLY RAINFALL IN INCHES
DURING THE PERIOD MAY-AUGUST
SUMMARIZED BY WHEAT POOL DISTRICTS

District	May	June	July	August	Total
1.....	2.35	2.34	1.18	2.15	7.90
2.....	1.74	2.58	1.19	1.98	7.61
3.....	.72	1.37	.90	1.48	4.46
4.....	.97	1.51	1.28	1.88	5.84
5.....	1.16	4.29	1.51	1.54	8.58
6.....	2.20	4.17	1.10	1.36	8.68
7.....	1.19	2.46	.79	1.66	7.04
8.....	1.59	2.57	.71	.89	5.74
9.....	2.29	3.78	.37	.95	7.56
10.....	1.07	3.10	.92	1.00	6.14
11.....	1.12	1.43	1.67	1.40	5.74
12.....	1.28	1.93	1.84	2.51	7.43
13.....	1.45	3.33	.45	1.43	6.60
14.....	2.86	2.03	1.12	2.02	7.77
15.....	2.16	3.05	1.56	2.31	9.30
16.....	2.19	3.37	2.29	3.27	11.17

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.

REVIEW OF THE 1960 SEASON

Moisture conditions in the spring of 1960 were good with the exception of a small area in the west-central part of the province. Seeding was delayed in many areas, particularly in the north and north-east, due to large quantities of 1959 grain which remained unthreshed over winter. Cold windy weather and frequent rain in the spring combined to delay seeding still further with the result that in many areas crops were seeded several weeks late. High winds in the spring caused soil drifting in some areas but due to good moisture conditions, damage was generally not widespread or severe. Heavy general rains in the latter part of June and the first week of July produced an extraordinarily heavy crop over most of the province. However, extremely hot and dry weather in the last three weeks of July caused the condition of the crop to decline sharply. Relief came in early August in the form of heavy general rains which halted the crop's decline. However, due to the hot, dry period many crops contained varying amounts of thin and shrunken kernels and yields were, in many cases, drastically reduced. Insect damage to rape crops was quite severe in some northern areas during the summer and early fall. Aphids attacked some barley fields which had been seeded late due to unfavorable weather conditions, and in a few areas of western and south-western Saskatchewan grasshoppers damaged some crops. Hail damage was relatively light in 1960. Excellent harvest weather prevailed during the time when most of the crop was taken off and a great majority of the grain was harvested in good condition.

SUMMARY OF RESULTS

When interpreting the results of the 1960 tests consideration must be given to some of the unusual conditions which prevailed during the season. Extremely hot, dry weather affected crops in a large area of the province and severely reduced yields of those crops and those varieties which are not particularly resistant to drought conditions. No stem or leaf rust of any consequence occurred during the season in any area of the province. While hail damage was less severe than normal, in certain areas severe insect damage occurred.

In the wheat tests Canthatch and Thatcher yielded well throughout the province confirming their reputation as valuable varieties under drought conditions. It should be kept in mind, however, that little or no rust damage occurred in 1960 and these varieties would not be expected to yield as favorably under rust conditions. The two varieties Selkirk and Pembina were somewhat lower in yield in 1960, but since they are the only rust

resistant varieties presently available they are the only ones which should be considered where rust is likely to occur. The yield results serve to illustrate that these two varieties are not notably drought resistant and so not particularly adapted to the part of the province where drought is the predominant hazard. Lake was generally not outstanding in yield in the 1960 tests. Its best performance was in the northern part of the province where it yielded relatively well in spite of its later maturity.

Oat tests were conducted only in the eastern and northern parts of the province. Exeter yielded well in the 1960 tests throughout this area. However, it should be kept in mind that this variety's susceptibility to stem and leaf rust makes it a doubtful choice where these diseases are likely to occur. Garry also yielded well in the 1960 tests, particularly in the south-east and north-west areas. This variety is resistant to all races of rust now prevalent and is particularly useful in areas where rust is to be expected. Rodney yielded reasonably well in the eastern part of the province in 1960. It is resistant to some races of rust but not as resistant as is Garry. Glen yielded well in the northern part of the province but the lowest yielding of the five varieties in the south-east. Russell did not produce outstanding yield results in any part of the province in 1960.

In the barley tests Palliser produced rather outstanding results in 1960. It was the highest yielding variety in all areas of the province. This yield performance must be discounted somewhat since Palliser is susceptible to rusts and since it is not eligible for grades higher than 3 C.W. two-row. Betzes yielded well in all parts of the province with the exception of the north-east, where it ranked fourth of the five varieties tested. Like Palliser, it is susceptible to rust and would not be a good choice where rust is likely to occur. Jubilee, a feed variety, yielded reasonably well in most areas of the province but was least outstanding in the south-west area. Hannchen produced only moderate yield results in the 1960 tests. Husky, a feed variety, was quite consistently the lowest yielding variety in the tests. Under good moisture conditions in earlier years Husky produced outstandingly high yields but under dry conditions its yield appears to drop sharply.

Rapeseed as a crop is not particularly drought resistant and for this reason the rape tests suffered more serious damage in 1960 than did the other grains. In the north-east area of the province, where most of the rapeseed is grown on a commercial scale the late maturing varieties, Golden, Regina II and R-1 outyielded Arlo and Polish by a substantial margin. However, in the remainder of the province the reverse was true, and Arlo and Polish were noticeably higher in yield. It is rather difficult to assess these results but it may be that the very hot, dry weather in July had less effect on the early maturing varieties than on the late ones.

More detailed information on the performance of these varieties can be found in the sections devoted to the different grains headed. "Performance of Varieties."



Bernard Schellenberg of Wishart conducted an oat test in 1960.

WHEAT TESTS

A total of 122 wheat tests were conducted in 1960. Each test contained the five varieties Thatcher, Canthatch, Selkirk, Pembina and Lake.

DESCRIPTION OF VARIETIES

Thatcher was included in these tests as the standard of comparison. It was developed at the University of Minnesota from the cross (Marquis X Iumillo) X (Marquis X Kanred). Thatcher is drought resistant and high in milling and baking quality. It is resistant to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, to stem rust and to covered smut.

Canthatch was developed at Winnipeg by the Canada Department of Agriculture and licensed for commercial distribution in 1959. It is very similar to Thatcher in appearance and growth characteristics, but has added stem rust resistance. It is, however, susceptible to leaf rust.

Selkirk was developed by the Canada Department of Agriculture at Winnipeg from crosses involving the varieties McMurachy, Exchange and Redman. It was licensed for distribution in 1953. It is equal to Thatcher in maturity, straw strength and straw length. It is less resistant to shattering but most resistant to bleaching. Selkirk is resistant to stem and leaf rust, and to loose and covered smut.

Pembina was developed at Winnipeg by the Canada Department of Agriculture and licensed for commercial distribution in 1959. It is similar to Selkirk, but matures slightly earlier and has slightly greater stem and leaf rust resistance. Pembina is slightly higher in milling and baking quality than is Selkirk, but has less resistance to covered smut.

Lake was developed at the Experimental Farm at Scott from the cross Regent X Canus. It is later in maturity than Thatcher and has medium long, strong straw. Lake is less resistant to shattering than is Thatcher. It is resistant to covered smut but susceptible to loose smut and to stem and leaf rust.

TABLE No. 2—AVERAGE YIELDS IN BUSHELS PER ACRE
SUMMARIZED BY AREAS

Area**	No. of Satisfactory Tests	Thatcher	Canthatch	Selkirk	Pembina	Lake	Necessary Difference* in Bushels
South-East	39	32.2	33.8	32.2	31.3	27.9	.71
South-West	26	22.7	23.8	22.4	21.5	21.7	.53
West-Central	25	23.5	24.4	23.0	22.6	21.6	.57
North-East	11	40.2	40.5	37.0	36.6	37.3	1.33
North-West	7	29.0	30.1	28.3	26.0	28.4	1.35

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

**See map, page 13.

Table No. 2. As this table shows, Canthatch yielded well throughout the province in 1960. The variety appears to have good drought resistance. It is not resistant to leaf rust and therefore should not be grown where leaf rust is a potential hazard. However, its resistance to stem rust and its drought resistance make it a useful variety in a large part of the province. Thatcher was only slightly lower in yield than Canthatch in the 1960 tests. Because of its susceptibility to both stem and leaf rust it is not adapted to areas where these diseases are likely to prevail, but in the remainder of the province its many other desirable characteristics make it a valuable variety. Selkirk and Pembina were quite similar in yield in most areas in 1960, with a slight margin

in favor of Selkirk. Both these varieties appear to have less tolerance to drought conditions than Thatcher and Canthatch. They are, however, both resistant to stem and leaf rust, and for this reason are useful varieties in areas where rust is to be expected. Lake placed third of the five varieties in both the northern areas but was somewhat lower yielding than the other varieties in the southern part of the province.

TABLE No. 3—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING—SUMMARIZED BY AREAS

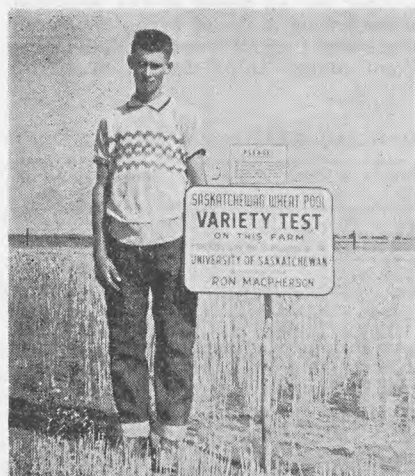
Area	Thatcher	Canthatch	Selkirk	Pembina	Lake
South-East	89.2	89.4	88.6	88.5	92.4
South-West	91.9	92.1	92.0	90.5	93.8
West-Central	94.1	93.8	93.4	93.1	96.1
North-East	94.2	94.5	91.7	91.8	95.0
North-West	105.0	106.5	101.8	101.0	105.0

Table No. 3. Time of maturity is an important characteristic in areas where frost is a potential hazard. As this table shows, Pembina was quite consistently earlier maturing than the other four varieties, while Lake was quite consistently several days later than the others. Thatcher, Canthatch and Selkirk were quite similar in time of maturity. Any minor differences would not be of any economic significance.

TABLE No. 4—AVERAGE HEIGHT OF PLANTS IN INCHES—SUMMARIZED BY AREAS

Areas	Thatcher	Canthatch	Selkirk	Pembina	Lake
South-East	32.8	33.3	33.1	32.8	33.9
South-West	28.5	28.4	28.5	28.1	28.7
West-Central	28.5	28.6	28.5	28.3	29.5
North-East	29.3	29.1	28.6	27.5	30.4
North-West	26.8	26.2	26.2	24.8	26.2

Table No. 4. Short straw may be an advantage or a disadvantage depending on circumstances. Under very dry conditions short straw may cause difficulty in combining. On the other hand very tall straw under moist conditions may tend to lodge in the field. Pembina had the shortest straw of the five varieties tested in four of the five areas and tied with Thatcher in the remaining area. Lake was the tallest variety in four of the five areas. The three varieties Thatcher, Canthatch and Selkirk were quite similar in height and their placing relative to each other was not consistent from one area to another.



Dry conditions in the area around Lacadena produced a rather thin stand in Ron MacPherson's wheat test.

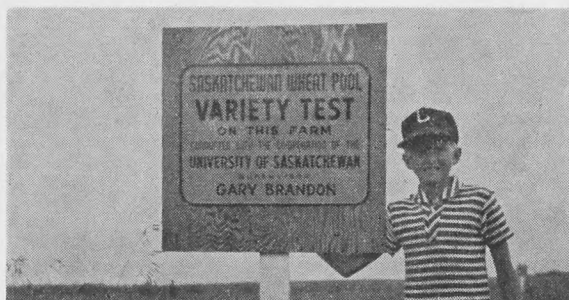


Wayne Rathgeber is proud of a heavy stand of oats in his test at Saltcoats.

TABLE No. 5—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS
1 (Strong) to 9 (Weak) SUMMARIZED BY AREAS

Areas	Thatcher	Canthatch	Selkirk	Pembina	Lake
South-East	2.5	2.4	2.2	2.8	2.6
South-West	2.6	2.7	2.6	2.9	2.5
West-Central	2.3	2.3	2.2	2.9	2.7
North-East	3.4	3.9	3.7	3.5	3.4
North-West	2.7	2.3	3.1	3.5	2.9

Table No. 5. Of the five varieties included in these tests none showed sufficient weakness of straw to be of any economic importance.



Gary Brandon of Prince Albert stands beside the sign indicating that he conducted a variety test in 1960.

TABLE No. 6—AVERAGE WEIGHT PER MEASURED BUSHEL—
SUMMARIZED BY AREAS

Areas	Thatcher	Canthatch	Selkirk	Pembina	Lake
South-East	61.7	62.3	59.9	60.9	61.1
South-West	60.1	60.6	57.8	59.1	59.9
West-Central	60.8	61.5	58.6	59.8	60.7
North-East	63.7	63.8	62.0	62.8	63.4
North-West	61.6	62.3	60.1	61.6	61.6

Table No. 6. Bushel weight is one of the factors which determine the commercial grades of the samples. The bushel weights of the five varieties were quite consistent in relation to each other for all areas of the province. Canthatch samples showed the highest bushel weight in all areas. Thatcher samples ranked in second place in four areas and tied for second place in the remaining one. Lake, Pembina and Selkirk placed third, fourth and fifth respectively.

TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	4 Sp. %	No. 5 %	5 Sp. %
Thatcher	16.1	47.2	29.5	4.5	.9	1.8	—
Canthatch	21.4	55.3	17.0	4.5	.9	.9	—
Selkirk	3.6	50.8	31.2	5.4	5.4	2.7	.9
Pembina	5.4	47.3	36.6	7.1	1.8	1.8	—
Lake	8.9	59.0	21.4	7.1	2.7	.9	—

Table No. 7. As might be expected from the table of weight per measured bushel, Canthatch samples graded highest with 21.4% of the samples falling in the One Northern grade. Thatcher samples graded somewhat lower with 16.1% placing in the One Northern grade. Lake ranked in third place with 8.9% in the top grade. Pembina and Selkirk were somewhat lower in grade with 5.4% and 3.6% respectively in the top grade. Because of the heavy stand of crop, the period of hot, dry weather in late July caused shrunken, thin kernels to be present in many samples. In a number of cases these shrunken kernels resulted in reduced grades.

GRAPHS SHOWING WHEAT YIELDS IN 1960

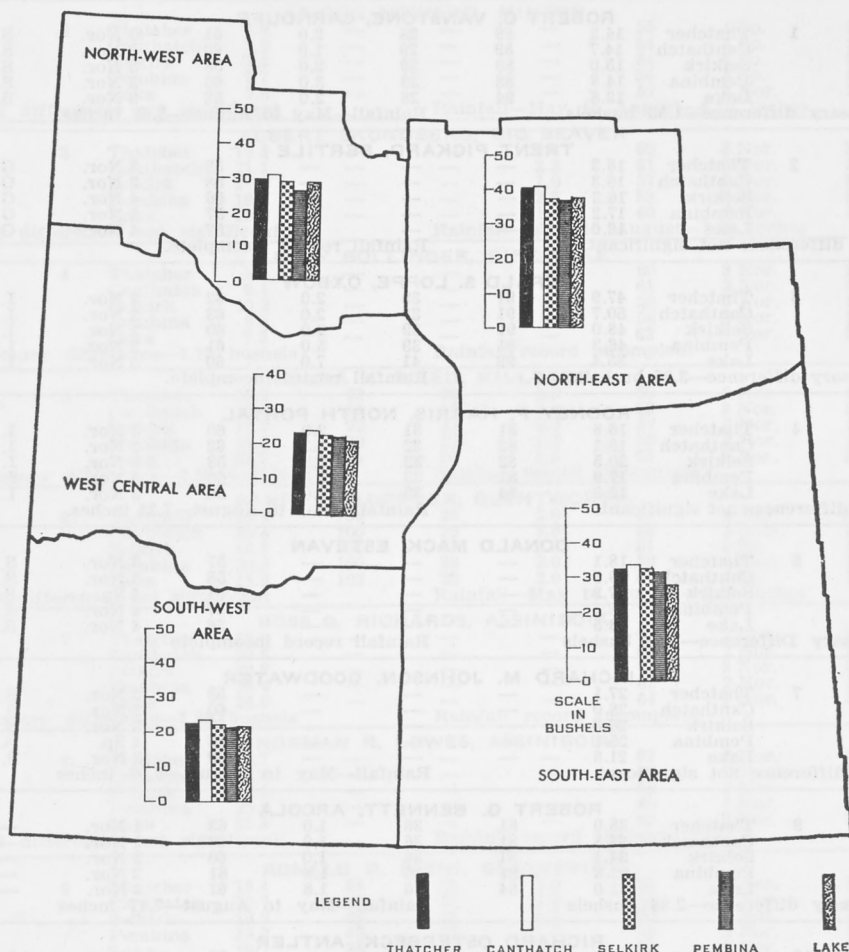


TABLE NO. 8

INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—WHEAT

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 5, headed, "Facts To Be Remembered in Reading Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on an area basis which notes the performance of the same varieties in a large number of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviations under "Grading Remarks", see Page 7.

WHEAT POOL DISTRICT 1

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT G. VANSTONE, CARNDUFF									
1	1	Thatcher	14.2	89	28	2.0	61	3 Nor.	S.
		Canthatch	14.7	89	29	1.0	60	3 Nor.	S.
		Selkirk	15.0	89	29	2.0	58	3 Nor.	S.
		Pembina	14.8	88	29	3.0	60	3 Nor.	S.
		Lake	12.8	94	28	2.0	58	3 Nor.	S.
Necessary difference—1.53 bushels.			Rainfall—May to August—8.68 inches.						
TRENT PICKARD, FERTILE									
1	2	Thatcher	16.3	—	—	—	58	3 Nor.	G., I.
		Canthatch	16.3	—	—	—	58	3 Nor.	G., I.
		Selkirk	16.2	—	—	—	56	4 Nor.	G., I.
		Pembina	17.2	—	—	—	57	3 Nor.	G., I.
		Lake	16.0	—	—	—	57	4 Nor.	G., I.
Yield differences not significant.			Rainfall record incomplete.						
GERALD S. LOPPE, OXBOW									
1	3	Thatcher	47.9	91	39	2.0	62	2 Nor.	I.
		Canthatch	50.7	91	39	2.0	63	2 Nor.	I.
		Selkirk	48.0	91	39	2.0	60	2 Nor.	I.
		Pembina	46.3	91	39	5.0	61	2 Nor.	I.
		Lake	35.4	98	41	7.0	60	2 Nor.	I.
Necessary difference—3.85 bushels.			Rainfall record incomplete.						
RODNEY F. HARRIS, NORTH PORTAL									
1	4	Thatcher	16.8	81	31	2.0	60	3 Nor.	I.
		Canthatch	19.1	82	32	2.3	62	2 Nor.	I.
		Selkirk	20.5	82	32	2.3	58	3 Nor.	I.
		Pembina	17.9	81	33	1.5	60	3 Nor.	I.
		Lake	12.8	84	33	2.0	58	3 Nor.	I.
Yield differences not significant.			Rainfall—May to August—7.35 inches.						
DONALD MACK, ESTEVAN									
1	5	Thatcher	18.1	—	—	—	57	3 Nor.	S.
		Canthatch	19.5	—	—	—	58	3 Nor.	S.
		Selkirk	17.3	—	—	—	54	4 Sp.	S.
		Pembina	18.1	—	—	—	57	4 Nor.	S.
		Lake	13.5	—	—	—	56	4 Nor.	S.
Necessary Difference—1.60 bushels			Rainfall record incomplete						
RICHARD M. JOHNSON, GOODWATER									
1	7	Thatcher	27.1	—	—	—	59	2 Nor.	S.
		Canthatch	28.0	—	—	—	60	2 Nor.	S.
		Selkirk	26.3	—	—	—	57	3 Nor.	S.
		Pembina	25.1	—	—	—	56	4 Sp.	S.
		Lake	21.8	—	—	—	59	2 Nor.	S.
Yield difference not significant			Rainfall—May to August—5.09 inches						
ROBERT G. BENNETT, ARCOLA									
1	9	Thatcher	35.0	81	36	1.0	63	1 Nor.	—
		Canthatch	36.8	81	36	1.0	63	1 Nor.	—
		Selkirk	34.1	81	36	1.0	60	2 Nor.	—
		Pembina	32.8	81	36	1.8	61	2 Nor.	—
		Lake	31.0	84	36	1.8	61	2 Nor.	—
Necessary difference—2.36 bushels			Rainfall—May to August—7.17 inches						
RICHARD OSTERBECK, ANTLER									
1	10	Thatcher	31.0	—	—	—	60	2 Nor.	S.
		Canthatch	31.1	—	—	—	62	2 Nor.	S.
		Selkirk	33.6	—	—	—	59	2 Nor.	S.
		Pembina	31.6	—	—	—	61	2 Nor.	S.
		Lake	28.2	—	—	—	60	2 Nor.	S.
Yield difference not significant			Rainfall record incomplete						

WHEAT POOL DISTRICT 2

ALLAN A. CALLADINE, RADVILLE									
2	1	Thatcher	31.9	92	32	4.0	57	3 Nor.	G., S.
		Canthatch	31.4	91	32	4.0	58	3 Nor.	G., S.
		Selkirk	31.5	92	33	4.0	56	4 Nor.	G., S.
		Pembina	34.7	90	32	4.0	57	3 Nor.	G., S.
		Lake	25.0	93	33	4.0	56	4 Nor.	G., S.
Necessary difference—4.59 bushels			Rainfall—May to August—8.74 inches						

Wheat Pool District 2—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ARCHIE HOWARD, MINTON									
2	2	Thatcher	7.0	—	—	—	55	4 Sp.	S.
		Canthatch	7.2	—	—	—	54	4 Sp.	S.
		Selkirk	7.8	—	—	—	54	4 Sp.	S.
		Pembina	7.7	—	—	—	54	4 Sp.	S.
		Lake	7.8	—	—	—	57	4 Nor.	S.
Yield differences not significant			Rainfall—May to August—6.70 inches						
ALBERT SKUNDBERG, BIG BEAVER									
2	3	Thatcher	19.3	—	—	3.3	60	3 Nor.	S.
		Canthatch	21.1	—	—	2.3	61	2 Nor.	S.
		Selkirk	21.0	—	—	1.0	57	3 Nor.	S.
		Pembina	19.3	—	—	2.3	58	3 Nor.	S.
		Lake	19.7	—	—	1.0	60	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—7.20 inches						
GARRY BOLLINGER, FIFE LAKE									
2	4	Thatcher	8.3	—	—	—	60	3 Nor.	S.
		Canthatch	9.1	—	—	—	61	2 Nor.	S.
		Selkirk	10.2	—	—	—	58	3 Nor.	S.
		Pembina	8.5	—	—	—	58	3 Nor.	S.
		Lake	7.5	—	—	—	62	2 Nor.	S.
Necessary difference—1.19 bushels			Rainfall record incomplete						
DONNA M. WEED, KILLDEER									
2	5	Thatcher	18.9	92	29	1.0	60	3 Nor.	S.
		Canthatch	19.6	94	26	2.0	59	3 Nor.	S.
		Selkirk	19.7	92	28	2.5	57	3 Nor.	S.
		Pembina	16.1	90	27	2.3	59	3 Nor.	S.
		Lake	23.7	96	26	1.3	63	2 Nor.	S.
Necessary difference—2.50 bushels			Rainfall record incomplete						
GARRY T. KUFFNER, GLENTWORTH									
2	6	Thatcher	20.0	100	26	2.0	56	4 Nor.	S.
		Canthatch	20.4	100	29	2.0	56	4 Nor.	S.
		Selkirk	19.8	101	31	2.0	51	5 Sp.	S.
		Pembina	20.9	100	29	2.0	56	4 Nor.	S.
		Lake	18.9	102	29	2.0	54	4 Sp.	S.
Yield differences not significant			Rainfall—May to August—6.43 inches						
ROSS G. RICHARDS, ASSINIBOIA									
2	7	Thatcher	29.8	—	—	—	62	2 Nor.	S.
		Canthatch	30.6	—	—	—	64	2 Nor.	S.
		Selkirk	29.9	—	—	—	61	2 Nor.	S.
		Pembina	26.4	—	—	—	62	2 Nor.	S.
		Lake	28.6	—	—	—	64	2 Nor.	S.
Necessary difference—1.86 bushels			Rainfall record incomplete						
NORMAN R. LOWES, ASSINIBOIA									
2	8	Thatcher	30.7	—	—	—	62	2 Nor.	S.
		Canthatch	32.0	—	—	—	62	2 Nor.	S.
		Selkirk	31.5	—	—	—	59	3 Nor.	S.
		Pembina	29.8	—	—	—	60	3 Nor.	S.
		Lake	32.3	—	—	—	62	2 Nor.	S.
Yield differences not significant			Rainfall record incomplete						
RONALD D. GIENI, GLASNEVIN									
2	9	Thatcher	19.4	84	21	1.0	63	2 Nor.	S.
		Canthatch	20.7	84	21	1.0	63	1 Nor.	S.
		Selkirk	19.2	84	21	1.0	60	2 Nor.	S.
		Pembina	18.2	83	21	1.8	59	3 Nor.	S.
		Lake	19.7	85	21	1.8	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—8.72 inches						
JAMES F. WEBB, AMULET									
2	10	Thatcher	35.8	95	20	3.5	63	2 Nor.	Bl.
		Canthatch	37.3	96	21	5.3	64	2 Nor.	Bl.
		Selkirk	29.7	97	21	5.3	63	2 Nor.	Bl.
		Pembina	32.4	97	21	3.3	63	2 Nor.	Bl.
		Lake	22.6	98	21	3.8	64	2 Nor.	Bl.
Necessary difference—6.39 bushels			Rainfall—May to August—8.76 inches						

WHEAT POOL DISTRICT 3

KENNETH M. STENGLER, MANKOTA									
3	1	Thatcher	15.0	95	—	1.8	59	3 Nor.	S.
		Canthatch	17.6	94	—	1.8	60	2 Nor.	S.
		Selkirk	16.9	94	—	1.3	56	4 Nor.	S.
		Pembina	17.1	93	—	2.0	58	3 Nor.	S.
		Lake	15.2	96	—	4.0	57	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—7.15 inches						

Wheat Pool District 3—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RUSSEL K. CARLETON, ORKNEY									
3	2	Thatcher	9.3	70	20	—	56	4 Nor.	S.
		Canthatch	9.9	73	22	—	56	4 Nor.	S.
		Selkirk	9.1	70	20	—	53	4 Sp.	S.
		Pembina	9.2	69	19	—	56	4 Nor.	S.
		Lake	8.6	68	19	—	55	4 Sp.	S.
Yield differences not significant			Rainfall record incomplete						
ALAN R. DUMONTEL, CLAYDON									
3	4	Thatcher	12.3	—	—	—	55	No. 5	S.
		Canthatch	13.0	—	—	—	56	4 Nor.	S.
		Selkirk	12.2	—	—	—	54	No. 5	S.
		Pembina	11.9	—	—	—	54	No. 5	S.
		Lake	11.8	—	—	—	53	No. 5	S.
Yield differences not significant			Rainfall—May to August—3.83 inches						
ROBERT C. ASLIN, ROBSART									
3	5	Thatcher	6.5	97	20	1.3	58	3 Nor.	S.
		Canthatch	6.6	96	18	1.0	58	3 Nor.	S.
		Selkirk	7.4	97	17	1.0	56	4 Nor.	S.
		Pembina	9.4	97	19	1.3	59	3 Nor.	S.
		Lake	7.4	97	18	1.3	59	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—2.36 inches						
JAMES P. WOLD, RAVENSCRAG									
3	6	Thatcher	8.8	84	18	2.0	55	No. 5	S.
		Canthatch	9.4	83	19	2.0	55	No. 5	S.
		Selkirk	8.6	81	18	2.0	54	No. 5	S.
		Pembina	9.1	79	18	2.0	56	4 Nor.	S.
		Lake	6.8	87	16	2.0	57	4 Nor.	S.
Necessary difference—1.25 bushels			Rainfall—May to August—3.94 inches						
STEPHEN GIRARD, EASTEND									
3	7	Thatcher	10.8	—	18	—	59	3 Nor.	S.
		Canthatch	12.3	—	19	—	59	3 Nor.	S.
		Selkirk	10.0	—	20	—	58	3 Nor.	S.
		Pembina	9.4	—	18	—	58	3 Nor.	S.
		Lake	11.3	—	21	—	59	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—5.85 inches						
J. LYNNE FULTON, SHAUNAVON									
3	8	Thatcher	20.9	88	28	5.0	62	3 Nor.	S.
		Canthatch	23.5	88	28	5.0	62	2 Nor.	S.
		Selkirk	21.7	90	28	5.0	60	2 Nor.	S.
		Pembina	18.7	88	28	5.0	59	3 Nor.	S.
		Lake	20.3	94	30	4.3	62	2 Nor.	S.
Necessary difference—1.77 bushels			Rainfall—May to August—3.31 inches						
JEROME F. WERNICKE, CADILLAC									
3	9	Thatcher	15.4	74	26	1.3	59	3 Nor.	T., I.
		Canthatch	13.8	74	24	1.0	60	3 Nor.	T., I.
		Selkirk	15.0	73	26	1.5	57	3 Nor.	T., I.
		Pembina	12.5	71	24	1.5	58	3 Nor.	T., I.
		Lake	5.3	78	26	1.3	59	3 Nor.	T., I.
Lake shattered—									
Yields not included in area summary			Rainfall—May to August—5.37 inches						
M. M. EDNA DUMONCEAUX, PONTEIX									
3	10	Thatcher	11.7	—	—	—	59	3 Nor.	S.
		Canthatch	12.1	—	—	—	60	3 Nor.	S.
		Selkirk	13.3	—	—	—	56	4 Nor.	S.
		Pembina	11.6	—	—	—	58	3 Nor.	S.
		Lake	11.1	—	—	—	59	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—6.31 inches						

WHEAT POOL DISTRICT 4

R. KEITH HECKER, PIAPOT									
4	1	Thatcher	11.9	—	—	—	60	3 Nor.	Bl.
		Canthatch	12.8	—	—	—	61	2 Nor.	Bl.
		Selkirk	12.6	—	—	—	58	3 Nor.	S.
		Pembina	10.1	—	—	—	60	3 Nor.	S., Bl.
		Lake	12.0	—	—	—	60	3 Nor.	S., Bl.
Yield differences not significant			Rainfall—May to August—5.20 inches						

Wheat Pool District 4—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DIANA M. RADTKE, WEBB									
4	4	Thatcher	23.5	103	33	2.5	63	2 Nor.	S.
		Canthatch	20.3	106	32	2.3	62	2 Nor.	S.
		Selkirk	18.4	108	32	2.5	61	2 Nor.	S.
		Pembina	19.1	106	29	2.8	63	2 Nor.	S.
		Lake	14.3	104	33	1.0	63	2 Nor.	S.
Necessary difference—4.20 bushels					Rainfall—May to August—6.15 inches				
GREGORY T. SORENSEN, CABRI									
4	5	Thatcher	20.8	95	29	1.0	63	2 Nor.	T.
		Canthatch	20.8	94	29	1.0	63	2 Nor.	T.
		Selkirk	22.2	94	30	1.0	61	2 Nor.	T.
		Pembina	19.9	95	29	1.0	62	2 Nor.	T.
		Lake	22.6	96	34	1.0	62	2 Nor.	T.
Necessary difference—1.69 bushels					Rainfall—May to August—7.28 inches				
DONALD A. MYROL, FOX VALLEY									
4	7	Thatcher	26.7	—	—	—	62	2 Nor.	S.
		Canthatch	27.7	—	—	—	63	2 Nor.	S.
		Selkirk	28.8	—	—	—	58	2 Nor.	S.
		Pembina	26.3	—	—	—	59	2 Nor.	S.
		Lake	25.1	—	—	—	61	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—5.64 inches				
JAMES G. KING, SCEPTRE									
4	9	Thatcher	26.1	94	35	7.0	59	3 Nor.	S., I.
		Canthatch	30.1	94	34	6.8	59	3 Nor.	S., I.
		Selkirk	29.5	94	35	7.3	58	3 Nor.	S., I.
		Pembina	26.8	94	35	7.0	59	3 Nor.	S., I.
		Lake	24.9	94	32	7.3	59	3 Nor.	S., I.
Necessary difference—3.48 bushels					Rainfall—May to August—4.80 inches				
LORNE R. JOHNSON, ABBEY									
4	10	Thatcher	24.2	90	37	1.0	58	3 Nor.	S.
		Canthatch	26.0	90	37	2.0	60	2 Nor.	S.
		Selkirk	25.1	90	37	2.0	57	3 Nor.	S.
		Pembina	20.1	90	37	1.0	57	3 Nor.	S.
		Lake	21.6	92	35	1.0	59	3 Nor.	S.
Necessary difference—2.87 bushels					Rainfall—May to August—6.43 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes									
4	4	Bill Cook, Carmichael							
4	6	Sandra L. Ahner, Maple Creek							
4	8	Ronald W. Moser, Burstall							

WHEAT POOL DISTRICT 5

GORDON R. BELL, VANTAGE									
5	1	Thatcher	27.7	—	28	—	63	2 Nor.	Satisfactory
		Canthatch	31.0	—	29	—	64	2 Nor.	
		Selkirk	26.5	—	29	—	61	2 Nor.	
		Pembina	22.2	—	27	—	63	2 Nor.	
		Lake	26.2	—	29	—	64	2 Nor.	
Necessary difference—4.21 bushels			Rainfall—May to August—9.96 inches						
TERRY E. BROWN, BATEMAN									
5	2	Thatcher	22.1	93	29	2.5	62	2 Nor.	Satisfactory
		Canthatch	23.2	93	29	3.3	63	2 Nor.	
		Selkirk	19.3	93	28	1.8	58	2 Nor.	
		Pembina	19.6	92	28	3.5	60	2 Nor.	
		Lake	23.8	94	30	2.3	59	2 Nor.	
Necessary difference—2.53 bushels			Rainfall—May to August—9.40 inches						
ROBERT H. GIESBRECHT, WYMARK									
5	4	Thatcher	20.5	102	18	2.0	61	2 Nor.	Satisfactory
		Canthatch	20.4	103	19	2.0	61	2 Nor.	
		Selkirk	17.3	102	19	2.0	58	3 Nor.	
		Pembina	18.1	100	17	3.0	58	3 Nor.	
		Lake	16.0	104	19	1.0	62	2 Nor.	
Necessary difference—1.97 bushels			Rainfall—May to August—6.60 inches						
MARVIN W. BROWN, KELSTERN									
5	5	Thatcher	29.0	—	—	—	61	2 Nor.	Satisfactory
		Canthatch	30.9	—	—	—	61	2 Nor.	
		Selkirk	28.5	—	—	—	57	3 Nor.	
		Pembina	24.7	—	—	—	57	3 Nor.	
		Lake	27.1	—	—	—	61	2 Nor.	
Yield differences not significant			Rainfall record incomplete						

Wheat Pool District 5—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ROBERT J. DUCKWORTH, COURVAL									
5	6	Thatcher	43.6	91	34	1.0	60	2 Nor.	I.
		Canthatch	44.5	92	34	1.0	61	2 Nor.	I.
		Selkirk	40.0	90	35	1.0	57	3 Nor.	I.
		Pembina	43.7	90	33	1.0	59	3 Nor.	I.
		Lake	42.7	94	37	1.0	57	3 Nor.	I.
Yield differences not significant					Rainfall—May to August—8.42 inches				
GARY J. FAWCETT, PARKBEG									
5	7	Thatcher	43.0	99	36	9.0	65	1 Nor.	—
		Canthatch	44.9	99	36	9.0	65	1 Nor.	—
		Selkirk	45.4	99	35	8.0	64	1 Nor.	—
		Pembina	47.2	92	39	8.0	65	1 Nor.	—
		Lake	45.5	99	40	9.0	65	1 Nor.	—
Yield differences not significant					Rainfall—May to August—10.15 inches				
E. WAYNE KNARR, ESKBANK									
5	8	Thatcher	27.5	82	27	1.0	63	1 Nor.	—
		Canthatch	27.7	82	27	1.0	63	1 Nor.	—
		Selkirk	25.5	84	24	1.0	62	2 Nor.	I.
		Pembina	25.9	80	28	2.0	61	2 Nor.	I.
		Lake	27.3	88	24	1.0	61	2 Nor.	I.
Yield differences not significant					Rainfall—May to August—6.83 inches				
GARY J. WENDEL, CENTRAL BUTTE									
5	9	Thatcher	57.4	105	43	4.3	62	2 Nor.	S.
		Canthatch	60.1	104	42	4.8	63	2 Nor.	S.
		Selkirk	51.8	104	42	3.5	59	2 Nor.	S.
		Pembina	55.2	103	42	5.5	60	2 Nor.	S.
		Lake	49.9	105	43	2.5	63	2 Nor.	S.
Necessary difference—3.37 bushels					Rainfall—May to August—7.29 inches				
ELDO M. SCHMIDT, ERNFOLD									
5	10	Thatcher	21.4	—	35	1.3	62	2 Nor.	S.
		Canthatch	22.5	—	34	1.0	62	2 Nor.	S.
		Selkirk	22.7	—	36	2.0	58	2 Nor.	S.
		Pembina	20.7	—	35	2.0	59	3 Nor.	S.
		Lake	22.4	—	32	1.0	60	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—7.53 inches				

WHEAT POOL DISTRICT 6

DENNIS R. WAGNER, FRANCIS									
6	2	Thatcher	45.9	—	37	5.3	63	2 Nor.	I.
		Canthatch	47.0	—	37	6.0	64	1 Nor.	—
		Selkirk	40.7	—	37	4.5	62	2 Nor.	I.
		Pembina	40.9	—	37	6.3	64	1 Nor.	—
		Lake	39.4	—	37	7.0	63	2 Nor.	I.
Necessary difference—4.84 bushels					Rainfall—May to August—6.38 inches				
ALAN J. O'BYRNE, ROWATT									
6	3	Thatcher	34.3	94	27	2.0	65	1 Nor.	—
		Canthatch	37.7	93	27	2.0	66	1 Nor.	—
		Selkirk	37.1	94	27	2.0	64	2 Nor.	I.
		Pembina	36.2	93	27	2.0	64	2 Nor.	—
		Lake	36.3	95	27	2.0	65	1 Nor.	—
Yield differences not significant					Rainfall—May to August—9.64 inches				
CHRISTOPHER R. HALE, PITMAN									
6	6	Thatcher	39.9	93	30	2.0	64	1 Nor.	—
		Canthatch	48.0	93	30	2.0	65	1 Nor.	—
		Selkirk	50.4	93	30	2.0	64	2 Nor.	I.
		Pembina	41.8	93	30	2.0	65	2 Nor.	I.
		Lake	26.9	97	30	2.0	64	2 Nor.	I.
Necessary difference—6.70 bushels					Rainfall—May to August—10.55 inches				
JACK K. LEIBEL, BALGONIE									
6	7	Thatcher	34.3	87	—	3.0	62	2 Nor.	I.
		Canthatch	36.4	87	—	2.0	62	2 Nor.	I.
		Selkirk	34.2	87	—	2.0	60	2 Nor.	I.
		Pembina	32.9	87	—	2.0	61	2 Nor.	I.
		Lake	33.7	89	—	2.0	61	2 Nor.	I.
Yield differences not significant					Rainfall—May to August—9.28 inches				
LAWRENCE E. UNIQUE, McLEAN									
6	8	Thatcher	50.0	83	38	1.0	61	2 Nor.	S.
		Canthatch	54.1	84	39	1.3	63	2 Nor.	S.
		Selkirk	47.7	81	40	1.0	59	2 Nor.	S.
		Pembina	49.0	81	38	1.5	58	3 Nor.	S.
		Lake	35.7	93	44	1.0	61	2 Nor.	S.
Necessary difference—7.28 bushels					Rainfall—May to August—8.56 inches				

Wheat Pool District 6—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GAIL M. DICKSON, TREGARVA									
6	10	Thatcher	52.9	95	40	2.0	65	1 Nor.	—
		Canthatch	55.1	95	40	2.3	65	2 Nor.	I.
		Selkirk	51.0	95	39	1.8	64	2 Nor.	I.
		Pembina	52.4	94	41	2.5	65	2 Nor.	I.
		Lake	40.5	101	42	2.3	65	1 Nor.	—
Necessary difference—3.12 bushels			Rainfall—May to August—9.52 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
6	6	Melis Melissen, Briercrest							

WHEAT POOL DISTRICT 7

HUGH D. McLAREN, MARYFIELD									
7	1	Thatcher	52.0	94	42	2.3	62	1 Nor.	—
		Canthatch	54.5	95	41	3.0	62	1 Nor.	—
		Selkirk	51.9	94	42	1.8	59	2 Nor.	—
		Pembina	49.9	94	38	3.8	61	2 Nor.	I.
		Lake	45.1	95	45	3.5	61	2 Nor.	I.
Necessary difference—4.10 bushels			Rainfall—May to August—9.37 inches						
ROBERT AND DOUGLAS CLARK, FLEMING									
7	2	Thatcher	47.0	86	40	2.5	63	2 Nor.	S.
		Canthatch	49.9	86	39	1.3	64	2 Nor.	S.
		Selkirk	49.1	86	39	1.0	59	2 Nor.	S.
		Pembina	48.1	82	37	3.5	62	2 Nor.	S.
		Lake	40.8	87	42	1.3	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—9.54 inches						
JAMES AND ROBERT EASTON, KENNEDY									
7	3	Thatcher	29.1	92	34	5.3	62	2 Nor.	S.
		Canthatch	29.5	92	34	5.5	62	2 Nor.	S.
		Selkirk	26.6	91	35	5.0	60	2 Nor.	S.
		Pembina	26.7	91	34	4.5	62	2 Nor.	S.
		Lake	29.4	92	35	5.3	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—5.94 inches						
JOHN L. HORNER, CREELMAN									
7	5	Thatcher	46.6	84	36	2.8	63	2 Nor.	—
		Canthatch	48.5	84	37	2.0	63	1 Nor.	—
		Selkirk	45.8	84	36	3.0	61	2 Nor.	I.
		Pembina	45.7	84	35	2.5	61	2 Nor.	I.
		Lake	33.1	89	37	2.0	62	2 Nor.	I.
Necessary difference—6.24 bushels			Rainfall—May to August—6.71 inches						
RONNIE F. PILLER, GRENFELL									
7	7	Thatcher	48.1	—	43	8.0	59	3 Nor.	S.
		Canthatch	48.5	—	42	7.8	61	3 Nor.	S.
		Selkirk	45.3	—	43	7.8	58	3 Nor.	S.
		Pembina	46.5	—	42	7.0	59	3 Nor.	S.
		Lake	39.8	—	43	6.8	59	3 Nor.	S.
Necessary difference—3.27 bushels			Rainfall—May to August—4.47 inches						
RODNEY TEBB, MARCHWELL									
7	9	Thatcher	31.5	88	33	1.0	64	1 Nor.	—
		Canthatch	31.9	88	34	1.0	64	1 Nor.	—
		Selkirk	32.7	88	31	1.0	61	2 Nor.	I.
		Pembina	27.0	88	32	1.0	63	2 Nor.	I.
		Lake	28.1	88	36	1.0	63	2 Nor.	I.
Yield differences not significant			Rainfall—May to August—5.84 inches						
TERENCE E. BENDER, ESTERHAZY									
7	10	Thatcher	—	91	40	1.0	—	—	—
		Canthatch	—	93	40	2.0	—	—	—
		Selkirk	—	92	40	1.0	—	—	—
		Pembina	—	93	40	2.0	—	—	—
		Lake	—	92	40	2.0	—	—	—
Yields discarded as unreliable			Rainfall record incomplete						
KENNETH J. MUJYGLA, WALDRON									
7	11	Thatcher	20.7	80	27	1.3	59	3 Nor.	S.
		Canthatch	21.0	81	29	1.0	61	2 Nor.	S.
		Selkirk	20.7	80	27	1.0	57	3 Nor.	S.
		Pembina	16.4	80	28	1.3	60	3 Nor.	S.
		Lake	17.2	82	27	1.0	59	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—2.95 inches						

WHEAT POOL DISTRICT 8

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
EDWARD KELLY, SALTCOATS									
8	2	Thatcher	30.9	—	—	—	60	2 Nor.	S.
		Canthatch	33.4	—	—	—	62	1 Nor.	—
		Selkirk	29.9	—	—	—	58	3 Nor.	S.
		Pembina	29.4	—	—	—	60	2 Nor.	S.
		Lake	28.1	—	—	—	62	1 Nor.	—
Yield differences not significant			Rainfall record incomplete						
SAMUEL BERG, SPRINGSIDE									
8	4	Thatcher	35.8	86	34	1.5	64	2 Nor.	S.
		Canthatch	36.2	87	34	1.3	64	2 Nor.	S.
		Selkirk	35.6	85	33	1.0	62	2 Nor.	S.
		Pembina	33.4	83	34	1.0	63	2 Nor.	S.
		Lake	35.9	88	34	2.0	64	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—3.44 inches						
HAROLD P. LUCASH, VERIGIN									
8	5	Thatcher	39.0	103	25	1.0	64	2 Nor.	S.
		Canthatch	38.7	99	30	1.0	65	1 Nor.	—
		Selkirk	35.6	103	28	1.0	62	2 Nor.	S.
		Pembina	35.3	100	31	1.0	62	2 Nor.	S.
		Lake	34.8	106	27	2.0	63	2 Nor.	S.
Necessary difference—2.40 bushels			Rainfall—May to August—4.47 inches						
ALLEN KOBYLKA, GORLITZ									
8	6	Thatcher	26.0	—	—	—	64	1 Nor.	—
		Canthatch	23.0	—	—	—	65	1 Nor.	—
		Selkirk	23.9	—	—	—	63	2 Nor.	S.
		Pembina	23.1	—	—	—	64	2 Nor.	S.
		Lake	21.0	—	—	—	63	2 Nor.	S.
Yield differences not significant			Rainfall record incomplete						
LAWRENCE A. PASLOSKI, RAMA									
8	7	Thatcher	44.4	—	—	—	65	1 Nor.	—
		Canthatch	43.5	—	—	—	65	1 Nor.	—
		Selkirk	40.8	—	—	—	63	2 Nor.	I.
		Pembina	37.9	—	—	—	64	1 Nor.	—
		Lake	38.1	—	—	—	63	2 Nor.	I.
Necessary difference—3.17 bushels			Rainfall—May to August—5.52 inches						

WHEAT POOL DISTRICT 9

ERIK L. HALLIDAY, LESTOCK									
9	3	Thatcher	51.6	—	—	1.5	65	1 Nor.	—
		Canthatch	55.7	—	—	2.0	65	1 Nor.	—
		Selkirk	55.5	—	—	1.0	64	1 Nor.	—
		Pembina	52.7	—	—	2.3	64	1 Nor.	—
		Lake	46.3	—	—	1.3	64	1 Nor.	—
Yield differences not significant				Rainfall—May to August—8.32 inches					
KEITH H. FLAVEL, BULYEA									
9	4	Thatcher	23.2	—	—	—	64	1 Nor.	—
		Canthatch	25.5	—	—	—	64	1 Nor.	—
		Selkirk	26.0	—	—	—	63	2 Nor.	I.
		Pembina	22.6	—	—	—	63	2 Nor.	I.
		Lake	25.8	—	—	—	60	2 Nor.	I.
Yield differences not significant				Rainfall—May to August—7.09 inches					
GORDON M. SCHMIDT, DUVAL									
9	5	Thatcher	27.8	—	30	—	60	3 Nor.	S.
		Canthatch	29.9	—	30	—	61	2 Nor.	S.
		Selkirk	25.5	—	30	—	58	3 Nor.	S.
		Pembina	28.6	—	30	—	61	2 Nor.	S.
		Lake	26.6	—	30	—	60	3 Nor.	S.
Necessary difference—1.87 bushels				Rainfall—May to August—6.76 inches					
HARRY J. SMITH, GOVAN									
9	6	Thatcher	33.4	—	—	—	64	1 Nor.	—
		Canthatch	37.7	—	—	—	63	1 Nor.	—
		Selkirk	32.3	—	—	—	61	2 Nor.	—
		Pembina	31.7	—	—	—	62	2 Nor.	—
		Lake	26.0	—	—	—	61	2 Nor.	—
Necessary difference—5.12 bushels				Rainfall record incomplete					

Wheat Pool District 9—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
HENRY LANG, RAYMORE									
9	7	Thatcher	—	86	21	1.8	63	2 Nor.	S.
		Canthatch	—	89	22	1.0	63	2 Nor.	S.
		Selkirk	—	73	22	1.0	60	2 Nor.	S.
		Pembina	—	86	21	1.8	62	2 Nor.	S.
		Lake	—	95	18	1.5	62	2 Nor.	S.
Test damaged by shattering—yields not reliable Rainfall—May to August—7.10 inches									
DONALD L. HAMILTON, LEROY									
9	8	Thatcher	36.0	—	31	2.3	64	2 Nor.	S.
		Canthatch	35.6	—	33	2.3	64	2 Nor.	S.
		Selkirk	25.0	—	30	1.3	61	2 Nor.	S.
		Pembina	29.1	—	29	1.5	63	2 Nor.	S.
		Lake	25.4	—	31	3.0	63	2 Nor.	S.
Necessary difference—7.84 bushels Rainfall—May to August—6.97 inches									

WHEAT POOL DISTRICT 10

GLENN A. PADBURY, AYLESBURY									
10	1	Thatcher	40.0	96	36	2.3	61	2 Nor.	I.
		Canthatch	43.4	96	37	2.5	62	2 Nor.	I.
		Selkirk	43.8	95	37	1.8	62	2 Nor.	I.
		Pembina	42.9	96	35	3.8	62	2 Nor.	I.
		Lake	40.2	101	41	1.3	61	2 Nor.	I.
Yield differences not significant Rainfall—May to August—6.76 inches									
BARRY L. OLSON, GILROY									
10	2	Thatcher	30.6	—	—	1.3	60	2 Nor.	S.
		Canthatch	31.9	—	—	1.0	62	2 Nor.	S.
		Selkirk	26.1	—	—	1.0	57	3 Nor.	S.
		Pembina	28.2	—	—	1.0	59	3 Nor.	S.
		Lake	18.1	—	—	2.0	62	2 Nor.	S.
Lake shattered—									
Yields not included in area summary Rainfall—May to August—6.79 inches									
PETER A. REIBER, WISETON									
10	4	Thatcher	21.7	—	—	—	59	3 Nor.	S.
		Canthatch	22.8	—	—	—	61	2 Nor.	S.
		Selkirk	23.6	—	—	—	57	3 Nor.	S.
		Pembina	21.9	—	—	—	59	3 Nor.	S.
		Lake	18.1	—	—	—	60	3 Nor.	S.
Necessary difference—2.12 bushels Rainfall—May to August—4.91 inches									
ALLAN R. COATES, BIRSAV									
10	5	Thatcher	30.7	—	40	—	60	3 Nor.	S.
		Canthatch	33.2	—	40	—	60	3 Nor.	S.
		Selkirk	33.3	—	40	—	59	3 Nor.	S.
		Pembina	32.8	—	40	—	60	3 Nor.	S.
		Lake	30.6	—	40	—	58	3 Nor.	S.
Yield differences not significant Rainfall—May to August—5.10 inches									
ERIC L. JOEL, ELBOW									
10	6	Thatcher	37.5	91	35	1.0	59	3 Nor.	S.
		Canthatch	39.0	89	35	2.0	59	3 Nor.	S.
		Selkirk	38.1	87	35	3.0	58	3 Nor.	S.
		Pembina	36.4	88	35	2.0	58	3 Nor.	S.
		Lake	30.4	93	39	5.0	60	3 Nor.	S.
Necessary difference—2.13 bushels Rainfall—May to August—7.20 inches									
JOAN A. WARREN, GIRVIN									
10	7	Thatcher	16.5	—	—	—	58	3 Nor.	S.
		Canthatch	17.3	—	—	—	60	2 Nor.	S.
		Selkirk	17.6	—	—	—	57	3 Nor.	S.
		Pembina	18.3	—	—	—	57	4 Nor.	S.
		Lake	16.2	—	—	—	57	3 Nor.	S.
Yield differences not significant Rainfall record incomplete									
LLOYD G. NELSON, SIMPSON									
10	8	Thatcher	13.3	—	—	—	63	2 Nor.	—
		Canthatch	14.2	—	—	—	63	1 Nor.	—
		Selkirk	13.2	—	—	—	61	2 Nor.	—
		Pembina	13.8	—	—	—	61	2 Nor.	—
		Lake	14.0	—	—	—	63	1 Nor.	—
Yield differences not significant Rainfall—May to August—6.30 inches									

Wheat Pool District 10—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
CHARLES E. HUBBS, BLADWORTH									
10	9	Thatcher	19.3	—	25	1.0	64	2 Nor.	I.
		Canthatch	18.0	—	25	1.0	64	2 Nor.	I.
		Selkirk	19.1	—	25	1.0	61	2 Nor.	I.
		Pembina	18.2	—	26	1.0	62	2 Nor.	I.
		Lake	19.4	—	26	1.5	64	2 Nor.	I.
Yield differences not significant					Rainfall—May to August—4.72 inches				
MAURICE R. OLSON, SWANSON									
10	10	Thatcher	16.6	—	29	2.0	60	2 Nor.	S.
		Canthatch	16.5	—	27	2.0	61	2 Nor.	S.
		Selkirk	15.5	—	27	2.0	58	3 Nor.	S.
		Pembina	15.7	—	26	4.0	59	3 Nor.	S.
		Lake	15.9	—	30	2.0	59	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—6.63 inches				

WHEAT POOL DISTRICT 11

RONALD W. MACPHERSON, LACADENA									
11	1	Thatcher	—	—	24	—	61	2 Nor.	S.
		Canthatch	—	—	24	—	61	2 Nor.	S.
		Selkirk	—	—	23	—	58	3 Nor.	S.
		Pembina	—	—	24	—	59	3 Nor.	S.
		Lake	—	—	23	—	60	2 Nor.	S.
Test damaged by soil drifting—yields not reliable					Rainfall—May to August—4.81 inches				
MERVIN V. HANSON, ESTON									
11	3	Thatcher	15.0	91	24	2.0	61	3 Nor.	S.
		Canthatch	14.8	91	25	2.5	63	2 Nor.	S.
		Selkirk	13.3	91	24	2.3	59	3 Nor.	S.
		Pembina	12.6	90	23	2.8	59	3 Nor.	S.
		Lake	12.6	93	23	2.0	61	2 Nor.	S.
Necessary difference—1.44 bushels					Rainfall—May to August—5.93 inches				
ARNOLD T. HOBBS, BROCK									
11	6	Thatcher	27.3	91	33	3.0	59	2 Nor.	S.
		Canthatch	27.1	91	33	3.0	59	2 Nor.	S.
		Selkirk	25.9	91	32	3.0	57	3 Nor.	S.
		Pembina	24.7	91	33	3.0	59	3 Nor.	S.
		Lake	25.2	91	33	3.0	59	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—5.48 inches				
MARCEL DUBOIS, ROSETOWN									
11	7	Thatcher	33.9	107	31	3.0	61	3 Nor.	Bl., S.
		Canthatch	34.3	107	31	3.3	61	3 Nor.	Bl., S.
		Selkirk	31.1	106	31	3.8	58	3 Nor.	Bl., S.
		Pembina	33.5	107	31	3.3	59	3 Nor.	Bl., S.
		Lake	28.8	111	35	3.0	62	2 Nor.	Bl., S.
Necessary difference—2.11 bushels					Rainfall—May to August—7.83 inches				
LORNE R. MATHISON, PLENTY									
11	9	Thatcher	24.0	—	—	8.0	59	3 Nor.	G., I.
		Canthatch	24.5	—	—	8.0	60	3 Nor.	G., I.
		Selkirk	21.4	—	—	6.0	57	3 Nor.	G., I.
		Pembina	23.1	—	—	8.0	59	3 Nor.	G., I.
		Lake	21.1	—	—	8.0	58	4 Nor.	G., I.
Necessary difference—1.76 bushels					Rainfall—May to August—6.31 inches				
TERRY J. TERNES, DRIVER									
11	10	Thatcher	10.4	94	17	2.5	60	3 Nor.	S.
		Canthatch	9.2	93	17	2.8	61	2 Nor.	S.
		Selkirk	12.4	92	19	2.8	59	2 Nor.	S.
		Pembina	9.8	93	20	3.0	59	3 Nor.	S.
		Lake	10.6	92	19	3.3	61	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—6.16 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
11	2	G. David Gilchrist, Gunnworth							
11	4	Betty Ann Fitzpatrick, La Porte							

WHEAT POOL DISTRICT 12

LESLIE H. POTTER, BIGGAR									
12	1	Thatcher	18.2	88	26	2.5	61	2 Nor.	S.
		Canthatch	22.4	88	27	2.5	61	2 Nor.	S.
		Selkirk	21.1	87	26	1.8	58	3 Nor.	S.
		Pembina	18.4	87	25	3.8	59	2 Nor.	S.
		Lake	19.7	90	27	2.8	58	3 Nor.	S.
Yield differences not significant					Rainfall—May to August—7.02 inches				

Wheat Pool District 12—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
GARY A. AFFLECK, NASEBY									
12	2	Thatcher	12.0	—	—	—	61	2 Nor.	S.
		Canthatch	12.8	—	—	—	62	2 Nor.	S.
		Selkirk	9.7	—	—	—	57	3 Nor.	S.
		Pembina	12.1	—	—	—	60	3 Nor.	S.
		Lake	10.6	—	—	—	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—6.35 inches						
DONALD M. CEY, LEIPZIG									
12	3	Thatcher	12.7	—	—	—	56	4 Nor.	B1., S.
		Canthatch	14.0	—	—	—	58	3 Nor.	B1., S.
		Selkirk	12.2	—	—	—	53	4 Sp.	B1., S.
		Pembina	12.5	—	—	—	56	4 Nor.	B1., S.
		Lake	12.2	—	—	—	56	4 Nor.	B1., S.
Yield differences not significant			Rainfall—May to August—7.21 inches						
JAMES S. PURVIS, BROADACRES									
12	4	Thatcher	17.6	88	22	2.0	62	3 Nor.	S., I.
		Canthatch	19.0	88	21	2.0	62	3 Nor.	S., I.
		Selkirk	16.0	88	21	2.0	58	3 Nor.	S., I.
		Pembina	14.9	86	20	2.0	61	3 Nor.	S., I.
		Lake	17.7	91	21	3.0	61	3 Nor.	S., I.
Yield differences not significant			Rainfall—May to August—6.87 inches						
RONALD MITZEL, REVENUE									
12	5	Thatcher	14.6	—	29	1.3	56	4 Nor.	S.
		Canthatch	14.1	—	29	1.0	56	4 Nor.	S.
		Selkirk	14.2	—	28	1.3	53	No. 5	S.
		Pembina	13.8	—	29	1.3	54	No. 5	S.
		Lake	12.4	—	28	1.3	56	4 Nor.	S.
Yield differences not significant			Rainfall—May to August—5.62 inches						
IRENE A. KEAY, UNITY									
12	7	Thatcher	28.4	95	30	2.5	61	3 Nor.	S.
		Canthatch	30.1	95	30	1.0	61	3 Nor.	S.
		Selkirk	25.7	95	30	1.5	57	3 Nor.	S.
		Pembina	25.8	95	30	2.0	59	3 Nor.	S.
		Lake	26.9	98	30	3.0	60	3 Nor.	S.
Yield differences not significant			Rainfall—May to August—9.72 inches						
BARRY J. ROBINSON, LONE ROCK									
12	8	Thatcher	20.8	—	25	2.3	64	1 Nor.	—
		Canthatch	21.0	—	25	2.0	65	1 Nor.	—
		Selkirk	23.7	—	25	1.0	63	2 Nor.	I.
		Pembina	20.1	—	24	1.8	63	2 Nor.	I.
		Lake	20.6	—	25	2.5	64	2 Nor.	I.
Yield differences not significant			Rainfall—May to August—7.94 inches						
CHESTER V. ZAWADA, IBSTONE									
12	10	Thatcher	26.5	104	37	1.0	62	2 Nor.	—
		Canthatch	27.2	104	37	1.0	64	1 Nor.	—
		Selkirk	27.7	104	37	1.0	61	2 Nor.	—
		Pembina	24.4	104	37	1.0	62	2 Nor.	—
		Lake	28.6	104	37	1.0	63	1 Nor.	—
Necessary difference—2.11 bushels			Rainfall—May to August—6.50 inches						

WHEAT POOL DISTRICT 13

JOHN CUNNINGHAM, SINNETT									
13	1	Thatcher	—	—	17	4.8	64	2 Nor.	S. — — — —
		Canthatch	—	—	19	3.3	63	2 Nor.	
		Selkirk	—	—	17	4.5	62	2 Nor.	
		Pembina	—	—	20	3.0	62	2 Nor.	
		Lake	—	—	20	2.3	63	2 Nor.	
Test damaged by shattering—yields not reliable					Rainfall—May to August—7.48 inches				
WAYNE A. JOHNS, ZELMA									
13	2	Thatcher	32.0	96	33	2.0	64	2 Nor.	S. — — — —
		Canthatch	35.3	95	34	2.3	64	1 Nor.	
		Selkirk	36.8	94	33	1.5	63	2 Nor.	
		Pembina	33.2	92	30	2.5	64	2 Nor.	
		Lake	29.6	97	37	2.5	64	1 Nor.	
Necessary difference—2.57 bushels					Rainfall—May to August—6.38 inches				

Wheat Pool District 13—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MICHAEL F. SUMMERFELDT, DUNDURN									
13	3	Thatcher	23.1	—	—	—	61	3 Nor.	S.
		Canthatch	24.3	—	—	—	62	2 Nor.	S.
		Selkirk	22.7	—	—	—	59	3 Nor.	S.
		Pembina	24.0	—	—	—	61	3 Nor.	S.
		Lake	20.8	—	—	—	62	2 Nor.	S.
Necessary	difference—1.77	bushels	Rainfall—May to August—6.67 inches						
LARRY R. MOLDENHAUER, COLONSAY									
13	4	Thatcher	37.4	91	26	2.0	64	2 Nor.	S.
		Canthatch	39.5	91	28	3.0	64	2 Nor.	S.
		Selkirk	30.9	91	30	2.0	61	2 Nor.	S.
		Pembina	34.4	89	31	7.8	62	2 Nor.	S.
		Lake	31.2	93	29	1.0	64	2 Nor.	S.
Yield	differences	not significant	Rainfall—May to August—6.04 inches						
GERALD G. MILLER, LENEY									
13	7	Thatcher	20.6	92	28	2.0	61	2 Nor.	S.
		Canthatch	21.8	92	27	2.0	62	2 Nor.	S.
		Selkirk	20.5	92	28	2.0	59	2 Nor.	S.
		Pembina	19.3	92	27	2.0	60	2 Nor.	S.
		Lake	18.9	99	29	2.0	60	2 Nor.	S.
Yield	differences	not significant	Rainfall—May to August—5.37 inches						
GLENN W. NEUFELD, ABERDEEN									
13	8	Thatcher	34.6	95	28	2.5	64	2 Nor.	S.
		Canthatch	34.2	95	28	2.0	65	2 Nor.	I.
		Selkirk	33.7	96	27	2.5	63	2 Nor.	I.
		Pembina	32.0	96	27	2.8	63	2 Nor.	I.
		Lake	35.8	97	29	2.5	65	2 Nor.	I.
Necessary	difference—2.23	bushels	Rainfall—May to August—7.92 inches						
ROBERT M. LOWE, PETERSON									
13	9	Thatcher	37.2	—	—	—	63	2 Nor.	Bl.
		Canthatch	36.7	—	—	—	63	2 Nor.	Bl.
		Selkirk	28.5	—	—	—	61	2 Nor.	Bl.
		Pembina	32.3	—	—	—	62	2 Nor.	Bl.
		Lake	25.8	—	—	—	64	2 Nor.	Bl.
Necessary	difference—5.26	bushels	Rainfall record incomplete						
DAVID V. WIEGERS, HUMBOLDT									
13	10	Thatcher	25.5	83	25	—	59	3 Nor.	S.
		Canthatch	26.3	83	25	—	61	2 Nor.	S.
		Selkirk	19.0	84	21	—	54	4 Sp.	S.
		Pembina	20.6	84	22	—	56	4 Nor.	S.
		Lake	16.6	85	23	—	60	3 Nor.	S.
Necessary	difference—2.56	bushels	Rainfall—May to August—7.85 inches						

WHEAT POOL DISTRICT 14

ERNEST E. KERNTOPF, NUT MOUNTAIN									
14	1	Thatcher	50.7	—	36	5.5	62	2 Nor.	I.
		Canthatch	55.0	—	37	7.3	63	2 Nor.	I.
		Selkirk	50.6	—	35	7.8	63	2 Nor.	I.
		Pembina	50.2	—	34	3.8	63	2 Nor.	I.
		Lake	42.8	—	37	7.0	62	2 Nor.	I.
Yield differences not significant				Rainfall—May to August—7.50 inches					
LEONARD K. SCHWANKE, KUROKI									
14	1	Thatcher	52.2	92	34	2.5	64	2 Nor.	S.
		Canthatch	53.5	93	34	2.3	64	2 Nor.	S.
		Selkirk	52.5	92	36	2.0	62	2 Nor.	S.
		Pembina	51.2	92	35	2.3	63	2 Nor.	S.
		Lake	47.6	94	35	3.8	64	2 Nor.	S.
Necessary difference—2.78 bushels				Rainfall—May to August—8.47 inches					
RAYMOND D. HANSON, ROSE VALLEY									
14	4	Thatcher	46.6	—	27	2.0	65	1 Nor.	—
		Canthatch	42.8	—	22	8.0	65	1 Nor.	—
		Selkirk	41.6	—	25	3.0	63	1 Nor.	—
		Pembina	39.6	—	22	7.0	64	1 Nor.	—
		Lake	39.3	—	20	5.0	65	2 Nor.	St.
Necessary difference—4.58 bushels				Rainfall—May to August—6.70 inches					

Wheat Pool District 14—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ERIC W. STADNEK, WEEKES									
14	6	Thatcher	47.0	90	37	2.0	65	1 Nor.	—
		Canthatch	49.1	90	38	4.0	64	2 Nor.	St.
		Selkirk	46.3	90	34	3.0	64	1 Nor.	St.
		Pembina	42.7	89	35	4.0	65	2 Nor.	I.
		Lake	49.0	91	38	2.0	62	2 Nor.	St.
Yield differences not significant					Rainfall—May to August—9.97 inches				
ELDON W. MOEN, MELFORT									
14	8	Thatcher	47.8	—	28	4.0	64	1 Nor.	—
		Canthatch	49.0	—	28	4.0	63	2 Nor.	I.
		Selkirk	45.4	—	28	6.0	62	2 Nor.	I.
		Pembina	46.7	—	28	3.0	63	2 Nor.	I.
		Lake	51.0	—	31	1.0	64	1 Nor.	—
Necessary difference—2.62 bushels					Rainfall—May to August—8.47 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
14	9	Norman Sturby, Gronlid							

WHEAT POOL DISTRICT 15

RUDOLPH J. BULL, MESKANAW									
15	1	Thatcher	39.6	96	32	2.0	64	1 Nor.	—
		Canthatch	38.1	97	30	2.0	65	1 Nor.	—
		Selkirk	34.8	95	32	1.0	64	1 Nor.	—
		Pembina	34.2	95	28	3.0	64	1 Nor.	—
		Lake	40.0	97	34	1.0	65	1 Nor.	—
Necessary difference—2.74 bushels					Rainfall—May to August—8.44 inches				
DENIS BAUDAIS, DOMREMY									
15	2	Thatcher	27.2	—	22	7.8	64	2 Nor.	S.
		Canthatch	27.9	—	20	5.5	64	2 Nor.	S.
		Selkirk	26.6	—	22	8.0	62	2 Nor.	S.
		Pembina	25.0	—	18	5.0	63	2 Nor.	S.
		Lake	25.7	—	25	9.0	64	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—5.30 inches				
HOWARD F. GILES, RED DEER HILL									
15	3	Thatcher	36.4	96	33	2.5	64	1 Nor.	—
		Canthatch	36.2	96	33	2.5	65	2 Nor.	I.
		Selkirk	34.1	92	33	2.5	64	2 Nor.	I.
		Pembina	35.5	92	32	2.0	64	2 Nor.	I.
		Lake	39.7	96	35	2.5	65	2 Nor.	I.
Necessary difference—2.42 bushels					Rainfall—May to August—9.88 inches				
MARVIN J. STEFFEN, ORDALE									
15	6	Thatcher	21.4	99	30	3.5	63	2 Nor.	Bl.
		Canthatch	21.5	104	29	2.8	64	2 Nor.	Bl.
		Selkirk	22.2	93	27	3.0	62	2 Nor.	Bl.
		Pembina	19.1	88	26	3.5	64	2 Nor.	Bl.
		Lake	22.4	104	32	1.8	64	2 Nor.	Bl.
Necessary difference—2.14 bushels					Rainfall—May to August—8.87 inches				
ANDRE F. CYR, DEBDEN									
15	7	Thatcher	—	—	—	—	63	2 Nor.	I.
		Canthatch	—	—	—	—	64	2 Nor.	I.
		Selkirk	—	—	—	—	62	2 Nor.	I.
		Pembina	—	—	—	—	64	2 Nor.	I.
		Lake	—	—	—	—	64	2 Nor.	I.
Test damaged—yields not reliable					Rainfall record incomplete				
R. FRANCIS, KINNAIRD, SHELLBROOK									
15	8	Thatcher	10.5	—	—	—	58	4 Nor.	S.
		Canthatch	9.6	—	—	—	58	4 Nor.	S.
		Selkirk	8.0	—	—	—	55	4 Sp.	S.
		Pembina	9.3	—	—	—	56	4 Nor.	S.
		Lake	7.1	—	—	—	55	4 Sp.	S.
Yield differences not significant					Rainfall—May to August—7.02 inches				
DUANE W. H. EALY, SNOWDEN									
15	11	Thatcher	32.9	108	30	1.5	65	2 Nor.	S.
		Canthatch	32.5	108	30	1.3	65	1 Nor.	S.
		Selkirk	31.4	97	30	1.3	63	2 Nor.	S.
		Pembina	27.6	99	27	4.0	64	2 Nor.	S.
		Lake	33.0	107	36	1.0	64	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—11.06 inches				

WHEAT POOL DISTRICT 16

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DMYTRO RAWLYCK, BORDEN									
16	1	Thatcher	29.8	—	—	—	59	3 Nor.	I.
		Canthatch	30.7	—	—	—	59	3 Nor.	I.
		Selkirk	25.6	—	—	—	56	4 Nor.	I.
		Pembina	25.7	—	—	—	59	3 Nor.	I.
		Lake	24.0	—	—	—	60	2 Nor.	I.
Yield differences not significant			Rainfall record incomplete						
BORIS EWANCHUK, WHITKOW									
16	3	Thatcher	47.3	98	36	1.0	62	2 Nor.	G., I.
		Canthatch	51.2	98	34	1.0	62	2 Nor.	G., I.
		Selkirk	49.7	98	36	1.0	62	2 Nor.	G., I.
		Pembina	43.2	97	34	1.0	63	2 Nor.	G., I.
		Lake	49.5	99	32	2.0	60	2 Nor.	G., I.
Necessary difference—3.00 bushels			Rainfall—May to August—8.92 inches						
DONALD W. IVERSON, MEOTA									
16	4	Thatcher	37.7	—	15	—	62	2 Nor.	Bl.,
		Canthatch	40.7	—	14	—	63	2 Nor.	S.
		Selkirk	39.3	—	14	—	61	2 Nor.	S.
		Pembina	35.1	—	12	—	62	2 Nor.	S.
		Lake	37.9	—	12	—	63	2 Nor.	S.
Necessary difference—2.93 bushels			Rainfall—May to August—10.01 inches						
EVELYN AND LINDA LONG, FURNESS									
16	6	Thatcher	28.6	108	28	2.3	64	2 Nor.	I.
		Canthatch	31.0	108	28	2.0	65	2 Nor.	I.
		Selkirk	29.5	105	29	2.5	62	2 Nor.	I.
		Pembina	27.4	105	27	4.3	63	2 Nor.	I.
		Lake	28.6	105	29	3.3	64	2 Nor.	I.
Yield differences not significant			Rainfall—May to August—10.10 inches						
DONALD J. SITTER, MEADOW LAKE									
16	11	Thatcher	27.8	115	25	3.8	62	2 Nor.	—
		Canthatch	25.8	116	26	3.3	63	2 Nor.	I., G.
		Selkirk	24.1	111	25	5.8	61	2 Nor.	I.
		Pembina	22.3	114	25	5.0	62	2 Nor.	I.
		Lake	29.4	112	26	4.5	63	2 Nor.	I.
Yield differences not significant			Rainfall—May to August—15.56 inches						



Gary Fawcett of Parkbeg stands in the pathway surrounding his wheat test.

OAT TESTS

A total of 49 oat tests were seeded in 1960. They were located only in the eastern, north-eastern and northern part of the province. This area is shown on the map on page 5. Each test contained the five varieties Garry, Rodney, Exeter, Glen and Russell.

DESCRIPTION OF VARIETIES

Garry was developed by the Canada Department of Agriculture at Winnipeg. It is resistant to all races of rust now prevalent, and to loose and covered smut. Garry has strong straw and is medium early in maturity.

Rodney was developed by the Canada Department of Agriculture at Winnipeg. It is late maturing and has medium tall, strong straw. It has fair resistance to stem and crown rust and good resistance to smut. It has large, plump kernels which tend to peel in threshing.

Exeter was developed by the Canada Department of Agriculture at Winnipeg. It is a late maturing variety with mid-tall, mid-strong straw. It is susceptible to smut, to some races of stem rust and to crown rust.

Glen was developed at Macdonald College, Quebec, from a cross between Ajax and Roxton. It is early maturing and has medium-long, medium-strong straw. It is moderately resistant to stem and crown rust and to covered smut, but susceptible to loose smut.

Russell (included in these tests under the number 0-60) This variety was developed by the Canada Department of Agriculture in Ontario and licensed for commercial distribution in 1960. It is medium-early in maturity and has medium-short, strong straw. It is resistant to stem and crown rust and to smut.

PERFORMANCE OF VARIETIES

TABLE No. 9—AVERAGE YIELDS IN BUSHELS PER ACRE—
SUMMARIZED BY AREAS

Area**	No. of Satisfactory Tests	Garry	Rodney	Exeter	Glen	Russell	Necessary Difference* in Bushels
South-East	17	67.6	65.3	68.4	61.2	64.2	2.13
North-East	7	72.2	76.3	91.6	79.3	74.4	4.18
North-West	9	62.5	56.8	67.0	57.2	55.1	2.57

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

**See map, page 31.

Table No. 9. **Exeter** was the highest yielding variety in all three of these areas in 1960. However it should be noted that this variety is susceptible to leaf and stem rust and for this reason would not be a good choice where these diseases are likely to occur. **Garry** placed second in yield in the south-east and the north-west areas, but ranked fifth of the five varieties in the north-east area. It is the most rust-resistant variety now available and is valuable in areas where rust presents a hazard. **Rodney** placed third in yield in the south-east and the north-east areas and ranked fourth in the north-west. It is resistant to some but not all races of rust now prevalent. **Glen** ranked

second in yield in the north-east, third in the north-west and fifth in the south-east area. It has some resistance to rust but not as much as Garry. Russell ranked fourth in the south-east and north-east areas and fifth in the north-west area. On the basis of 1960 results it does not appear to be particularly adapted to Saskatchewan conditions.

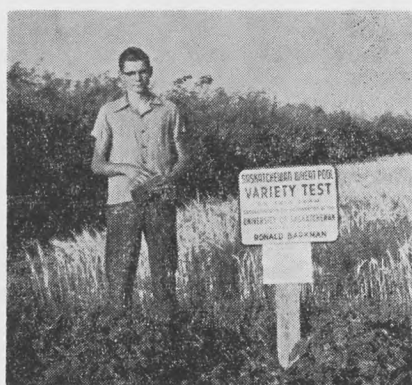
TABLE No. 10—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING—SUMMARIZED BY AREAS

Areas	Garry	Rodney	Exeter	Glen	Russell
South-East	83.5	84.5	84.5	81.8	83.9
North-East	84.6	85.4	83.4	82.6	85.4
North-West	88.3	91.0	89.8	86.6	89.4

Table No. 10. Time of maturing is relatively more important in the northern areas where frost is a potential hazard. Since most oats are used for feed, frost damage is less serious in oats than in other grains. As shown in this table, Glen was consistently earlier maturing than the other varieties while Rodney and Exeter were somewhat later maturing. The two varieties, Garry and Russell, were quite similar in time of maturity and were intermediate between the others.



Henry Lang of Raymore shows his test to visiting elevator agent, Andrew Nemeth from Cymric.



Ronald Barkman of Flowing Well is shown filling out a report on the progress of his test.

TABLE No. 11—AVERAGE HEIGHT OF PLANTS IN INCHES—SUMMARIZED BY AREAS

Areas	Garry	Rodney	Exeter	Glen	Russell
South-East	33.7	32.7	31.9	33.8	31.3
North-East	31.6	31.2	31.6	30.4	29.6
North-West	32.0	31.6	31.1	32.3	30.6

Table No. 11. In most of the areas in which oat tests were conducted in 1960, lodging of oats is a serious problem so shortness of straw is a valuable characteristic. Russell was the shortest variety of those tested in all three areas of the province. Exeter and Rodney were quite similar in height and ranked second and third respectively on an average basis. Garry ranked fourth in two of these areas and tied for fourth place in the third area. Glen was, on an average basis, the tallest of the five varieties tested in 1960.



George Wiens stands beside the sign indicating that he conducted a test this year at Dalmeny.



Linda and Lois Paulson of Saskatoon appear happy with the progress of their test.

TABLE No. 12—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 1 (Strong) to 9 (Weak) SUMMARIZED BY AREAS

Areas	Garry	Rodney	Exeter	Glen	Russell
South-East	1.7	2.0	2.5	2.5	2.1
North-East	1.9	1.9	2.2	2.3	1.8
North-West	2.2	2.4	3.4	2.9	2.1

Table No. 12. No serious weakness of straw is evident among the five varieties in these areas, although the table shows that **Exeter** and **Glen** have somewhat less straw strength than the other three varieties.

TABLE No. 13—AVERAGE WEIGHT PER MEASURED BUSHEL—SUMMARIZED BY AREAS

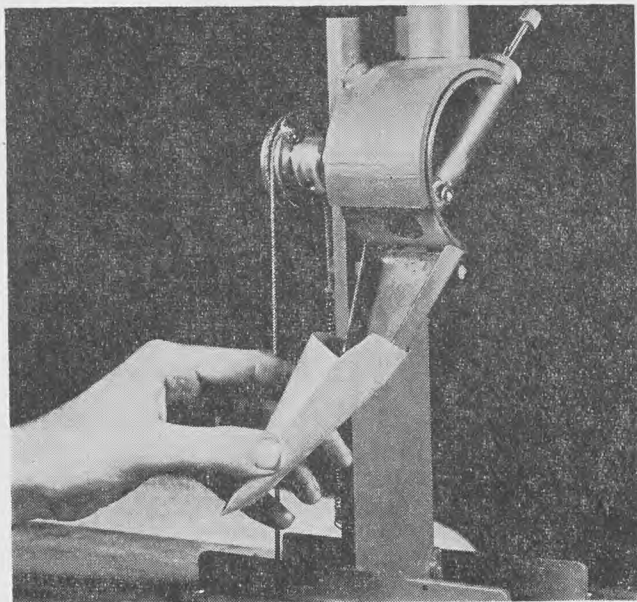
Areas	Garry	Rodney	Exeter	Glen	Russell
South-East	38.8	40.3	37.9	38.1	39.6
North-East	40.3	41.6	39.5	38.3	40.6
North-West	39.8	40.0	39.2	38.3	38.8

Table No. 13. Weight per measured bushel is related to the commercial grades and also to the feeding value of oats. **Rodney** characteristically produces a large plump kernel with a thin hull and consequently produces high bushel weight. For feeding purposes this variety has the added advantage that close threshing will remove a substantial percentage of the hulls. **Garry** and **Russell** also produce plump, well-filled kernels but these are normally smaller than those of **Rodney** and the bushel weight is lower. Kernels of **Exeter** and **Glen** are less plump than those of the other varieties and the bushel weight is normally lower.

TABLE No. 14—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	1 C.W. %	2 C.W. %	Ex. 3 C.W. %	3 C.W. %	Ex. 1 Feed %	1 Feed %	2 Feed %
Garry	—	47.4	5.3	34.1	7.9	5.3	—
Rodney	2.7	36.8	10.5	36.8	7.9	5.3	—
Exeter	2.6	26.3	2.6	44.8	7.9	13.2	2.6
Glen	7.9	29.0	5.3	39.4	—	18.4	—
Russell	5.3	34.2	5.3	29.4	—	10.5	5.3

Table No. 14. **Garry** was the highest grading of the five varieties tested, having 47.4% of the samples falling in the 2 C.W. grade. **Rodney** and **Russell** were quite similar, each having 39.5% of the samples falling in the two top grades. **Glen** graded somewhat lower with 36.9% of the samples in these two grades. **Exeter** ranked fifth of the five varieties tested having 28.9% of the samples in these two grades.



This seed dispenser was used to measure the amount of seed for each row of the tests.



This picture shows the equipment used to thresh and weigh the grain produced in the tests.

GRAPHS SHOWING OAT YIELDS IN 1960

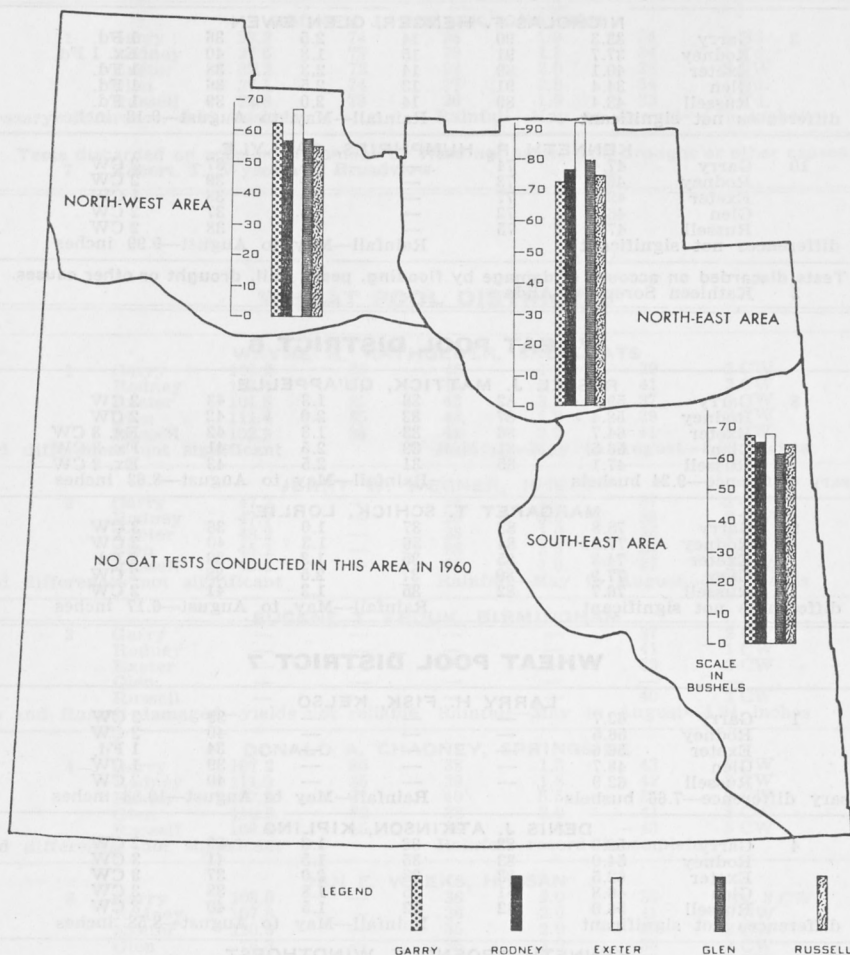


TABLE NO. 15

INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—OATS

The results of all successful oats tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 5, headed, "Facts To Be Remembered in Reading Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on an area basis which notes the performance of the same varieties in a large number of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviations under "Grading Remarks", see Page 7.

WHEAT POOL DISTRICT 1

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
NICHOLAS F. HENGER, GLEN EWEN									
1	3	Garry	33.3	90	14	2.5	36	1 Fd.	G.
		Rodney	37.7	91	15	1.8	40	Ex. 1 Fd.	G.
		Exeter	40.1	89	14	2.3	38	1 Fd.	G.
		Glen	34.4	91	13	2.5	36	1 Fd.	G.
		Russell	43.4	89	14	2.0	39	1 Fd.	G.
Yield differences not significant			Rainfall—May to August—9.13 inches						
KENNETH R. HUMPHRIES, CARLYLE									
1	10	Garry	47.4	74	—	—	37	2 CW	—
		Rodney	46.2	73	—	—	39	2 CW	—
		Exeter	49.5	77	—	—	38	1 CW	—
		Glen	46.8	72	—	—	37	2 CW	—
		Russell	47.4	75	—	—	38	2 CW	—
Yield differences not significant			Rainfall—May to August—9.99 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
1	2	Kathleen Sorensen, Alida							

WHEAT POOL DISTRICT 6

RUSSEL J. MATTICK, QU'APPELLE									
6	8	Garry	59.5	82	36	1.3	43	2 CW	—
		Rodney	58.4	87	33	2.0	42	2 CW	—
		Exeter	64.7	86	33	1.3	42	Ex. 3 CW	G.
		Glen	56.5	81	39	2.5	41	Ex. 3 CW	G.
		Russell	47.1	85	31	2.5	43	Ex. 3 CW	G.
Necessary difference—9.24 bushels			Rainfall—May to August—8.63 inches						
MARGARET T. SCHICK, LORLIE									
6	9	Garry	78.8	83	37	1.0	36	3 CW	—
		Rodney	77.3	84	36	1.3	40	2 CW	G.
		Exeter	74.3	85	35	1.3	33	2 Fd.	—
		Glen	77.9	80	37	2.5	38	2 CW	G.
		Russell	76.7	82	35	1.3	41	2 CW	G.
Yield differences not significant			Rainfall—May to August—6.17 inches						

WHEAT POOL DISTRICT 7

LARRY H. FISK, KELSO									
7	1	Garry	62.7	—	—	—	39	2 CW	G.
		Rodney	56.5	—	—	—	40	2 CW	G.
		Exeter	56.6	—	—	—	34	1 Fd.	G.
		Glen	48.7	—	—	—	39	1 CW	G.
		Russell	62.9	—	—	—	40	2 CW	G.
Necessary difference—7.66 bushels				Rainfall—May to August—10.83 inches					
DENIS J. ATKINSON, KIPLING									
7	4	Garry	58.3	83	36	1.3	39	2 CW	G.
		Rodney	54.0	83	35	1.5	41	3 CW	G.
		Exeter	62.5	83	33	2.0	37	3 CW	G.
		Glen	46.8	81	35	1.8	38	3 CW	G.
		Russell	56.0	82	32	1.5	40	3 CW	G.
Yield differences not significant				Rainfall—May to August—8.58 inches					
KENNETH TROENDLE, WINDTHORST									
7	6	Garry	—	87	35	1.0	37	2 CW	G.
		Rodney	—	92	33	2.3	38	2 CW	G.
		Exeter	—	88	31	2.8	35	1 Fd.	—
		Glen	—	81	36	3.0	39	1 CW	—
		Russell	—	89	34	4.0	40	2 CW	G.
Test damaged by animals—yields not reliable				Rainfall—May to August—9.03 inches					
ALAN W. BOWMAN, WHITEWOOD									
7	8	Garry	57.1	—	28	1.8	38	3 CW	G.
		Rodney	47.4	—	25	2.0	39	3 CW	G.
		Exeter	50.8	—	25	2.3	38	3 CW	G.
		Glen	50.5	—	29	2.5	38	3 CW	G.
		Russell	47.3	—	25	1.5	40	3 CW	G.
Yield differences not significant				Rainfall—May to August—6.53 inches					
S. MURRAY PASK, ATWATER									
7	10	Garry	62.1	82	33	1.3	41	2 CW	G.
		Rodney	62.4	82	32	1.5	42	2 CW	G.
		Exeter	63.6	84	30	2.0	40	2 CW	G.
		Glen	57.3	80	33	1.8	38	2 CW	G.
		Russell	50.6	82	28	1.3	40	2 CW	G.
Yield differences not significant				Rainfall—May to August—4.47 inches					

Wheat Pool District 7—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
RODNEY J. DUCZEK, GRAYSON									
7	11	Garry	23.2	74	28	1.0	34	1 Fd.	G.
		Rodney	27.5	73	29	1.3	34	1 Fd.	G.
		Exeter	32.2	72	28	2.0	38	3 CW	G.
		Glen	27.1	74	27	2.5	34	1 Fd.	G.
		Russell	22.8	73	26	1.5	32	2 Fd.	G.
Necessary difference—5.16 bushels			Rainfall—May to August—4.76 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
7	7	Robert T. Wysoskey, Broadview							

WHEAT POOL DISTRICT 8

WAYNE A. RATHGEBER, SALTCOATS									
8	1	Garry	105.2	85	45	1.0	39	2 CW	—
		Rodney	107.4	85	44	5.0	41	2 CW	—
		Exeter	101.8	85	43	3.8	37	2 CW	—
		Glen	111.4	85	48	1.3	39	2 CW	—
		Russell	102.9	86	42	3.0	41	1 CW	—
Yield differences not significant			Rainfall—May to August—5.06 inches						
JERRY W. WEGNER, RHEIN									
8	2	Garry	47.7	—	28	2.0	37	2 CW	—
		Rodney	47.7	—	28	3.8	39	2 CW	—
		Exeter	48.2	—	28	1.0	36	1 Fd.	G.
		Glen	45.1	—	28	3.5	34	1 Fd.	—
		Russell	45.6	—	28	1.0	37	2 CW	—
Yield differences not significant			Rainfall—May to August—3.62 inches						
EUGENE T. FEDUK, BIRMINGHAM									
8	3	Garry	—	—	—	—	37	2 CW	—
		Rodney	—	—	—	—	41	1 CW	—
		Exeter	—	—	—	—	39	2 CW	—
		Glen	—	—	—	—	—	—	—
		Russell	—	—	—	—	40	2 CW	—
Glen and Russell damaged—yields not reliable			Rainfall—May to August—4.94 inches						
DONALD A. CHADNEY, SPRINGSIDE									
8	4	Garry	107.2	85	38	1.3	43	3 CW	G.
		Rodney	111.9	85	39	1.8	42	3 CW	G.
		Exeter	107.3	87	40	5.5	38	3 CW	G.
		Glen	116.9	82	38	3.0	41	3 CW	G.
		Russell	108.4	85	36	1.8	43	3 CW	G.
Yield differences not significant			Rainfall record incomplete						
IAN E. WEEKS, HASSAN									
8	8	Garry	103.0	—	36	2.0	39	Ex. 3 CW	G.
		Rodney	107.8	—	36	2.0	41	3 CW	G.
		Exeter	120.6	—	35	2.0	39	3 CW	G.
		Glen	76.3	—	36	2.0	38	3 CW	G.
		Russell	92.6	—	35	2.0	40	3 CW	G.
Necessary difference—11.41 bushels			Rainfall—May to August—6.08 inches						
LINDA M. JOHNSON, NORQUAY									
8	9	Garry	109.2	—	43	1.3	42	2 CW	G.
		Rodney	87.9	—	42	1.0	44	2 CW	G.
		Exeter	92.6	—	42	1.5	41	2 CW	G.
		Glen	92.5	—	41	1.5	40	2 CW	G.
		Russell	94.0	—	41	1.0	40	3 CW	G.
Yield differences not significant			Rainfall—May to August—4.63 inches						
RICHARD SHANKOWSKY, PELLY									
8	10	Garry	78.1	—	41	2.0	40	3 CW	G.
		Rodney	85.2	—	43	1.0	41	Ex. 3 CW	G.
		Exeter	80.2	—	39	3.0	41	3 CW	G.
		Glen	84.1	—	40	5.0	39	2 CW	G.
		Russell	87.9	—	41	4.0	41	3 CW	G.
Necessary difference—5.72 bushels			Rainfall—May to August—4.37 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
8	7	Allen H. Frederickson, Theodore							

WHEAT POOL DISTRICT 9

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JOHN F. HEGGIE, LEROSS									
9	3	Garry	—	—	37	2.5	39	2 CW	—
		Rodney	—	—	34	2.3	39	3 CW	G.
		Exeter	—	—	34	3.5	41	3 CW	G.
		Glen	—	—	33	3.0	37	3 CW	G.
		Russell	—	—	34	2.3	37	3 CW	G.
Test damaged by animals—yields not reliable Rainfall—May to August—7.99 inches									
DENNIS J. ECKEL, QUINTON									
9	7	Garry	76.3	—	32	1.3	37	2 CW	—
		Rodney	59.8	—	31	2.0	39	3 CW	G.
		Exeter	61.9	—	30	5.0	36	2 CW	—
		Glen	48.6	—	35	1.3	37	3 CW	G.
		Russell	68.5	—	29	2.3	38	3 CW	G.
Glen damaged by shattering—yields not included in area summary Rainfall—May to August—9.84 inches									
LEONARD D. WOOD, KANDAHAR									
9	8	Garry	58.5	88	26	2.5	39	2 CW	S.
		Rodney	44.2	88	25	3.0	41	2 CW	G.
		Exeter	56.1	87	25	2.3	37	3 CW	T.
		Glen	48.3	89	26	2.5	39	2 CW	—
		Russell	52.2	88	24	3.0	40	2 CW	—
Necessary difference—7.71 bushels Rainfall—May to August—5.60 inches									
BERNARD J. SCHELLENBERG, WISHART									
9	9	Garry	57.8	89	33	3.0	41	3 CW	G.
		Rodney	50.9	91	29	1.0	43	2 CW	G.
		Exeter	61.3	91	30	2.0	39	3 CW	G.
		Glen	50.2	86	34	2.0	39	3 CW	G.
		Russell	53.6	91	29	1.0	41	2 CW	G.
Necessary difference—4.53 bushels Rainfall—May to August—7.86 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
9	1	Georgian Krushelniski, Ituna							

WHEAT POOL DISTRICT 12

KAREN E. M. WISMER, CUTKNIFE									
12	9	Garry	57.1	90	20	2.0	39	2 CW	—
		Rodney	56.4	92	20	2.0	41	1 CW	—
		Exeter	55.9	90	20	2.5	39	2 CW	—
		Glen	56.5	83	22	3.0	38	3 CW	G.
		Russell	50.3	91	20	2.0	41	1 CW	—
Yield differences not significant Rainfall—May to August—8.82 inches									
DIANA R. DEGENSTIEN, BATTLEFORD									
12	10	Garry	52.9	83	31	2.0	38	2 CW	S.
		Rodney	52.3	84	33	2.0	40	Ex. 3 CW	G.
		Exeter	53.1	84	30	2.0	39	3 CW	G.
		Glen	50.9	83	31	2.0	38	2 CW	G.
		Russell	50.7	82	30	2.0	39	2 CW	G.
Yield differences not significant Rainfall—May to August—8.90 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
12	8	Leo A. Bertoia, Baldwinton							

WHEAT POOL DISTRICT 13

JACQUELINE ANTOSHKIW AND VINCENT SCHEIDL, WAKAW									
13	9	Garry	65.5	71	19	1.3	42	2 CW	G.
		Rodney	64.9	73	18	1.5	43	3 CW	G.
		Exeter	71.3	75	18	1.8	41	3 CW	G.
		Glen	69.4	69	20	2.8	41	2 CW	G.
		Russell	68.1	73	19	2.0	42	3 CW	G.
Necessary difference—4.18 bushels Rainfall record incomplete									
HERMAN NIEKAMP, ST. GREGOR									
13	11	Garry	75.6	—	—	—	39	2 CW	—
		Rodney	80.6	—	—	—	41	2 CW	—
		Exeter	79.4	—	—	—	37	2 CW	G.
		Glen	86.1	—	—	—	37	3 CW	G.
		Russell	81.7	—	—	—	40	2 CW	G.
Yield difference not significant Rainfall record incomplete									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
13	10	Fritz Schuler, Middle Lake							

WHEAT POOL DISTRICT 14

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
DONALD H. LOOKER, PLEASANTDALE									
14	3	Garry	—	82	38	5.0	43	3 CW	G.
		Rodney	—	83	40	4.5	44	3 CW	G.
		Exeter	—	84	38	5.8	42	3 CW	G.
		Glen	—	82	36	5.8	41	3 CW	G.
		Russell	—	81	33	3.3	43	3 CW	G.
Test damaged by shattering—yields not reliable Rainfall—May to August—8.57 inches									
PERCY M. WHITFORD, NOBLEVILLE									
14	5	Garry	—	—	—	—	37	3 CW	G.
		Rodney	—	—	—	—	40	3 CW	G.
		Exeter	—	—	—	—	36	1 Fd.	G.
		Glen	—	—	—	—	34	1 Fd.	G.
		Russell	—	—	—	—	39	3 CW	G.
Test damaged by birds—yields not reliable Rainfall—May to August—8.60 inches									
VICTOR J. SHALANSKI, PORCUPINE PLAIN									
14	6	Garry	—	88	32	1.0	38	3 CW	G.
		Rodney	—	86	30	1.3	39	3 CW	G.
		Exeter	—	72	31	1.3	39	3 CW	G.
		Glen	—	87	29	1.0	35	1 Fd.	G.
		Russell	—	88	30	1.5	39	1 Fd.	G.
Test damaged by livestock—yields not reliable Rainfall record incomplete									
ANDREW MAULT, CARRAGANA									
14	6	Garry	68.0	88	30	1.0	42	Ex. 1 Fd.	W.
		Rodney	66.6	92	30	1.0	42	Ex. 1 Fd.	W.
		Exeter	73.1	89	30	1.0	40	Ex. 1 Fd.	W.
		Glen	53.5	85	30	1.0	39	1 Fd.	W.
		Russell	60.9	92	30	1.0	40	1 Fd.	W.
Necessary difference—6.24 bushels Rainfall record incomplete									
MELVIN R. BARROS, CARLEA									
14	10	Garry	75.7	—	—	—	38	Ex. 1 Fd.	G.
		Rodney	96.1	—	—	—	41	Ex. 3 CW	G.
		Exeter	129.8	—	—	—	38	Ex. 1 Fd.	G.
		Glen	116.3	—	—	—	36	3 CW	G.
		Russell	91.2	—	—	—	40	Ex. 3 CW	G.
Necessary difference—12.90 bushels Rainfall—May to August—7.61 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
14	4	A. Neil Morrison, Rose Valley							

WHEAT POOL DISTRICT 15

DENNIS R. MACLEOD, CRYSTAL SPRINGS									
15	1	Garry	85.0	94	39	1.0	41	Ex. 3 CW	G.
		Rodney	83.2	93	38	1.0	41	2 CW	G.
		Exeter	109.2	97	41	1.0	41	2 CW	G.
		Glen	77.2	90	37	1.0	39	Ex. 3 CW	G.
		Russell	77.6	93	36	1.0	40	2 CW	G.
Necessary difference—14.35 bushels Rainfall—May to August—9.81 inches									
B. LYNN STEVENSON, PRINCE ALBERT									
15	3	Garry	68.1	—	—	—	44	3 CW	G.
		Rodney	73.7	—	—	—	44	3 CW	G.
		Exeter	92.7	—	—	—	41	3 CW	G.
		Glen	80.2	—	—	—	42	2 CW	G.
		Russell	69.0	—	—	—	43	3 CW	G.
Necessary difference—7.55 bushels Rainfall record incomplete									
GARY BRANDON, PRINCE ALBERT									
15	9	Garry	67.5	—	—	—	39	Ex. 1 Fd.	G.
		Rodney	68.8	—	—	—	41	Ex. 1 Fd.	G.
		Exeter	85.5	—	—	—	40	Ex. 1 Fd.	G.
		Glen	72.3	—	—	—	39	1 Fd.	G.
		Russell	72.2	—	—	—	40	1 Fd.	G.
Yield differences not significant Rainfall record incomplete									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
15	7	Gilles Francoeur, Victoire							

WHEAT POOL DISTRICT 16

MERVIN M. ZALESCHUK, MAYMONT									
16	1	Garry	51.4	—	—	—	41	2 CW	G.
		Rodney	31.6	—	—	—	38	3 CW	G.
		Exeter	55.2	—	—	—	39	2 CW	G.
		Glen	44.8	—	—	—	40	2 CW	G.
		Russell	49.8	—	—	—	41	2 CW	G.
Necessary difference—8.27 bushels Rainfall record incomplete									

Wheat Pool District 16—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
JAMES A. HINDE, WASECA									
16	5	Garry	74.9	90	37	4.0	40	2 CW	G.
		Rodney	71.0	94	37	4.0	41	2 CW	G.
		Exeter	83.0	93	36	5.5	39	2 CW	G.
		Glen	64.8	87	37	4.8	40	1 CW	G.
		Russell	75.1	91	35	4.0	41	2 CW	G.
Necessary difference—10.00 bushels			Rainfall—May to August—10.01 inches						
HARALD M. PETERSEN, ALCURVE									
16	6	Garry	83.0	90	36	1.0	39	3 CW	W.
		Rodney	77.8	90	34	2.0	40	3 CW	W.
		Exeter	88.7	93	33	5.0	38	3 CW	W.
		Glen	68.8	90	36	1.0	36	3 CW	W.
		Russell	67.8	90	34	1.0	38	3 CW	W.
Necessary difference—9.57 bushels			Rainfall—May to August—11.94 inches						
JOSEPH R. C. ROTHERY, PARADISE HILL									
16	7	Garry	98.8	90	37	2.5	39	3 CW	W.
		Rodney	93.7	95	37	2.5	40	3 CW	W.
		Exeter	105.0	90	37	2.8	38	3 CW	W.
		Glen	96.7	91	38	2.8	37	3 CW	W.
		Russell	86.4	91	37	2.5	38	3 CW	W.
Necessary difference—5.63 bushels			Rainfall—May to August—10.68 inches						
WAYNE R. MORK, CLEEVES									
16	8	Garry	28.5	90	24	2.0	39	3 CW	G.
		Rodney	18.9	96	24	3.0	34	1 Fd.	G.
		Exeter	31.3	92	23	4.0	41	2 CW	G.
		Glen	33.1	87	23	6.0	36	3 CW	G.
		Russell	17.5	94	23	1.0	30	2 Fd.	G.
Necessary difference—6.29 bushels			Rainfall—May to August—12.65 inches						
HILDA TOEWS, MAYFAIR									
16	10	Garry	61.8	78	36	1.0	42	3 CW	G.
		Rodney	54.0	81	33	1.0	43	Ex. 3 CW	G.
		Exeter	65.4	80	36	1.0	41	3 CW	G.
		Glen	55.4	76	36	1.0	40	3 CW	G.
		Russell	44.5	80	32	2.0	40	3 CW	G.
Necessary difference—6.64 bushels			Rainfall—May to August—10.77 inches						
FRANCIS L. ARLETT, LOON LAKE									
16	11	Garry	54.0	95	35	2.8	41	2 CW	—
		Rodney	55.1	96	35	2.3	43	2 CW	G.
		Exeter	65.1	96	34	4.0	39	3 CW	G.
		Glen	43.8	96	35	2.8	40	3 CW	G.
		Russell	57.5	96	34	2.0	41	3 CW	G.
Necessary difference—12.17 bushels			Rainfall—May to August—11.40 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
16	9	Muriel L. McConnell, Glaslyn							



Alan Dumontel of Claydon displays the sign indicating that he conducted a test this year.

BARLEY TESTS

A total of 115 barley tests were seeded in 1960. Each test contained the five varieties, Husky, Jubilee, Hannchen, Betzes, Palliser.

DESCRIPTION OF VARIETIES

Husky is a six-rowed, feed variety which is late maturing. It was developed at the University of Saskatchewan and licensed for commercial distribution in 1953. It has medium-strong straw but some tendency to shattering and head breakage. It has good resistance to stem and leaf rust, and moderate resistance to covered smut, but is susceptible to loose smut.

Jubilee (included in these tests under the number B-9). It was developed at the University of Saskatchewan from the cross Peatland X Regal X O.A.C. 21² X Husky. It is a six-rowed, feed variety which is quite similar to Husky in growth characteristics, but usually higher in yield.

Hannchen is a selection made in Canada from a variety which originated in Sweden. It is a medium-late maturing variety which is susceptible to rusts and smuts. It has mid-short, mid-weak straw. Hannchen is eligible for the highest two-row grades.

Betzes is a mid-late maturing variety originally introduced from Poland and licensed for distribution in 1960. It is susceptible to rusts and smuts and has fair straw strength. Betzes is eligible for the top two-row grades.

Palliser (included in these tests under the number B-2). It was developed by the Canada Department of Agriculture at Lethbridge and licensed for commercial distribution in 1960. It is a two-rowed, mid-late variety which is susceptible to rusts and smuts. It has fair straw strength and good resistance to shattering and head breakage. Palliser is not eligible for grades higher than 3 C.W. two-row.

PERFORMANCE OF VARIETIES

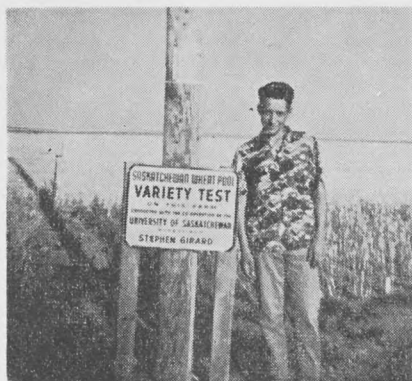
TABLE No. 16—AVERAGE YIELDS IN BUSHEL PER ACRE
SUMMARIZED BY AREAS

Area**	Tests	No. of Satisfactory					Necessary Difference*	
		Husky	Jubilee	Hannchen	Betzes	Palliser	in Bushels	
South-East	31	37.7	44.8	43.8	45.0	48.9	1.18	
South-West	18	31.5	36.3	36.8	37.9	41.5	1.20	
West-Central	23	31.0	36.5	34.6	36.7	41.8	1.30	
North-East	6	48.6	58.9	53.5	51.3	59.6	3.42	
North-West	10	49.7	54.1	53.1	54.5	56.4	2.18	

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

**See map, page 40.

Table No. 16. **Palliser** yielded very well in the tests conducted in 1960. It was the highest yielding of the five varieties tested, in all areas. This variety appears to be well adapted to conditions of limited moisture, but because it is susceptible to leaf and stem rust it is not satisfactory in areas where these diseases are prevalent. **Betzes** yielded well in a large part of the province, placing second of the five varieties in four of the five areas. In the north-east area it placed fourth. Like **Palliser**, this variety is susceptible to stem and leaf rust and would not be a good choice where these diseases occur. **Jubilee** ranked second in the north-east area, third in the south-east, west-central and north-west areas and fourth in the south-west. This feed variety is quite similar to **Husky** but is generally higher in yield. It is resistant to stem and leaf rust. **Husky** yielded rather poorly in relation to the other varieties tested in 1960. It placed fifth of the five varieties in all the areas.



Stephen Girard of Eastend stands at the corner of the field in which his test is located. His rain gauge appears in the background.

TABLE No. 17—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING—SUMMARIZED BY AREAS

Area	Husky	Jubilee	Hannchen	Betzes	Palliser
South-East	86.8	86.4	86.2	85.7	86.2
South-West	82.5	81.4	82.0	81.4	81.5
West-Central	89.7	88.8	87.6	86.9	88.1
North-East	87.2	87.2	84.4	84.2	86.6
North-West	97.2	96.1	94.7	94.7	95.4

Table No. 17. Of the five varieties tested **Betzes** was quite consistently earliest in maturity, while **Husky** was generally later than the other four. On an average basis **Hannchen** was second earliest while **Palliser** placed third and **Jubilee** placed fourth.

TABLE No. 18—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY AREAS

Area	Husky	Jubilee	Hannchen	Betzes	Palliser
South-East	28.5	28.4	28.0	27.1	30.2
South-West	22.9	22.5	22.0	21.0	23.5
West-Central	24.4	24.9	24.8	23.7	26.1
North-East	25.4	23.2	23.4	21.6	25.0
North-West	27.6	27.4	26.4	25.2	27.0

Table No. 18. Depending on the area of the province being considered, short straw in barley may be an advantage or a disadvantage. Under dry conditions some varieties may grow too short for satisfactory combining. On the other hand, in areas of more abundant moisture, long strawed varieties may, under some conditions, tend to lodge more than shorter strawed varieties. In all these areas **Betzes** produced the shortest straw of the five varieties tested. On an average basis **Hannchen** was second shortest, followed by **Jubilee**, **Husky** and **Palliser** in that order.

TABLE No. 19—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 1(Strong) to 9 (Weak) SUMMARIZED BY AREAS

Areas	Husky	Jubilee	Hannchen	Betzes	Palliser
South-East	2.4	2.2	3.3	3.2	3.2
South-West	2.8	3.0	3.6	3.3	3.5
West-Central	2.4	2.0	2.5	2.4	2.7
North-East	3.1	3.3	4.9	5.2	4.0
North-West	3.2	3.4	4.8	4.2	3.9

Table No. 19. Straw strength of barley is relatively more important under conditions of adequate moisture and heavy growth than it is under drought conditions. The table shows little difference between **Husky** and **Jubilee** as regards straw strength. Both were consistently stronger strawed than the other three varieties. On an average basis **Hannchen** appears the weakest-strawed of the five varieties tested.

TABLE No. 20—AVERAGE NECK STRENGTH OF PLANTS ON THE BASIS
1 (Strong) to 3 (Weak) SUMMARIZED BY AREAS

Areas	Husky	Jubilee	Hannchen	Betzes	Palliser
South-East	1.4	1.4	1.9	2.1	1.9
South-West	2.0	2.3	2.4	2.4	2.3
West-Central	1.9	1.6	2.0	2.4	1.8
North-East	1.8	1.9	2.0	2.6	2.1
North-West	1.5	1.6	2.1	2.3	1.6

Table No. 20. This table indicates the degree to which barley straw tends to break off at the "neck" or just below the head. Where this occurs the heads fall to the ground and are, of course, not harvested. In general Husky and Jubilee were somewhat better than the other varieties in this respect, while Betzes showed the greatest tendency toward breakage. Of the two remaining varieties, Palliser was somewhat better than Hannchen in this characteristic.

TABLE No. 21—AVERAGE WEIGHT PER MEASURED BUSHEL—
SUMMARIZED BY AREAS

Areas	Husky	Jubilee	Hannchen	Betzes	Palliser
South-East	44.5	44.4	49.8	48.3	46.6
South-West	44.6	44.4	49.3	48.1	46.3
West-Central	46.1	46.2	50.9	49.6	47.8
North-East	47.6	48.4	52.0	49.5	48.4
North-West	48.9	49.0	51.5	51.0	49.0

Table No. 21. Bushel weight bears an important relationship to both the grading potential of a variety and to its value for feeding purposes. The placing of these five varieties was quite consistent for all the areas. On an average basis they ranked in the following order from heaviest to lightest: Hannchen, Betzes, Palliser, Jubilee and Husky.

TABLE No. 22—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	1 C.W. 2R. %	2 C.W. 2R. %	3 C.W. 2R. %	1 Feed %	2 Feed %	3 Feed %
Husky	—	—	—	61.0	13.0	26.0
Jubilee	—	—	—	62.0	13.0	25.0
Hannchen	5.0	18.0	31.0	38.0	5.0	3.0
Betzes	5.0	17.0	27.0	31.0	12.0	8.0
Palliser	—	—	65.0	10.0	16.0	9.0

Table No. 22. It is not possible to make a direct comparison of the grades of these varieties, since Husky and Jubilee are eligible only for feed grades, Hannchen and Betzes are eligible for the highest two-row grades, and Palliser is not eligible for grades higher than 3 C.W. two-row. The table shows no significant difference in the grading position of the two feed varieties Husky and Jubilee. Hannchen graded slightly better than Betzes, having slightly higher percentages of the samples falling in the 2 C.W. and 3 C.W. grades than did the latter variety. Palliser graded well with nearly two-thirds of the samples falling in the highest grade for which this variety is eligible.

GRAPHS SHOWING BARLEY YIELDS IN 1960

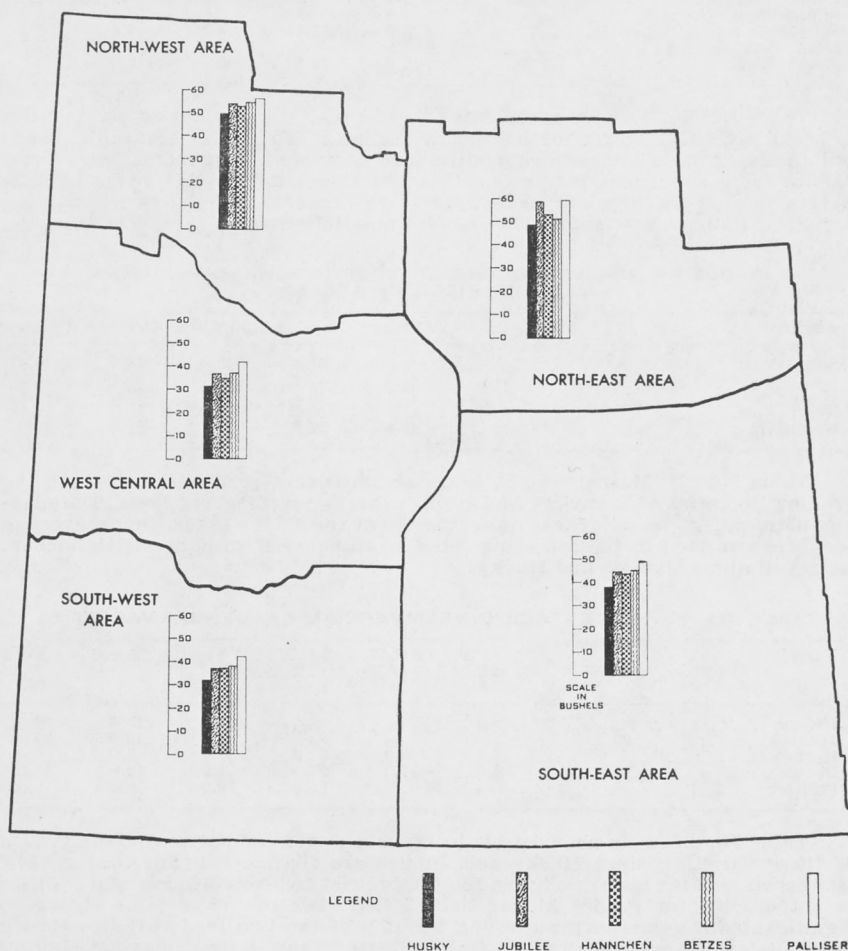


TABLE NO. 23

INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—BARLEY

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 5, headed, "Facts To Be Remembered in Reading Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on an area basis which notes the performance of the same varieties in a large number of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviations under "Grading Remarks", see Page 7.

WHEAT POOL DISTRICT 1

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
CHARLES E. REDPATH, GAINSBOROUGH										
1	1	Husky	25.5	71	17	1.0	1.0	39	3 Fd.	S.
		Jubilee	26.4	70	18	1.5	1.0	38	3 Fd.	S.
		Hannchen	30.2	71	18	1.8	1.3	47	1 Fd.	S.
		Betzes	27.2	70	18	2.0	2.0	43	2 Fd.	S.
		Palliser	32.2	70	20	1.0	1.3	43	2 Fd.	S.
Yield differences not significant			Rainfall—May to August—7.24 inches							
NORMAN I. DILLMAN, BIENFAIT										
1	4	Husky	39.6	—	—	—	—	40	3 Fd.	—
		Jubilee	45.6	—	—	—	—	38	3 Fd.	—
		Hannchen	34.1	—	—	—	—	47	1 Fd.	S.
		Betzes	39.6	—	—	—	—	46	1 Fd.	S.
		Palliser	37.1	—	—	—	—	46	1 Fd.	—
Yield differences not significant			Rainfall record incomplete							
AIME E. BOEY, BENSON										
1	5	Husky	58.0	79	35	1.0	1.0	42	3 Fd.	S.
		Jubilee	67.9	79	32	2.0	1.0	43	2 Fd.	S.
		Hannchen	62.6	79	32	5.0	2.0	46	1 Fd.	S.
		Betzes	63.1	79	30	6.0	2.0	44	2 Fd.	S.
		Palliser	61.2	79	32	9.0	2.0	46	1 Fd.	S.
Yield differences not significant			Rainfall—May to August—11.37 inches							
VERNON ADAMS, ESTEVAN										
1	6	Husky	19.7	—	—	—	—	35	3 Fd.	S.
		Jubilee	26.4	—	—	—	—	34	3 Fd.	—
		Hannchen	24.9	—	—	—	—	43	2 Fd.	—
		Betzes	28.9	—	—	—	—	40	3 Fd.	—
		Palliser	26.9	—	—	—	—	37	3 Fd.	—
Necessary difference—5.21 bushels			Rainfall record incomplete							
PATRICK J. HODGEN, MIDALE										
1	6	Husky	26.7	88	32	2.0	2.0	42	3 Fd.	S.
		Jubilee	27.4	88	30	2.0	1.0	40	3 Fd.	S.
		Hannchen	33.4	87	31	1.0	1.0	47	3 CW	S.
		Betzes	32.0	83	32	4.0	1.0	45	2 Fd.	S.
		Palliser	32.9	88	34	3.0	3.0	43	2 Fd.	S.
Yield differences not significant			Rainfall—May to August—10.31 inches							
JIM R. BRAITHWAITE, WEYBURN										
1	8	Husky	12.3	—	—	4.8	2.0	33	3 Fd.	S.
		Jubilee	14.3	—	—	4.3	2.0	30	3 Fd.	S.
		Hannchen	30.7	—	—	3.0	2.0	41	3 Fd.	S.
		Betzes	34.8	—	—	2.5	2.0	39	3 Fd.	S.
		Palliser	33.9	—	—	5.3	2.0	35	3 Fd.	S.
Necessary difference—5.27 bushels			Rainfall—May to August—7.22 inches							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1	9	Julian A. Richaud, Forget								

WHEAT POOL DISTRICT 2

SAMMY MITCHELL, LAKE ALMA										
2	1	Husky	—	—	—	—	—	40	3 Fd.	S.
		Jubilee	—	—	—	—	—	42	3 Fd.	S.
		Hannchen	—	—	—	—	—	51	3CW 2R	S.
		Betzes	—	—	—	—	—	48	1 Fd.	S.
		Palliser	—	—	—	—	—	44	2 Fd.	S.
Test damaged—yields not reliable			Rainfall record incomplete							
GERALD O. TAMES, BUFFALO GAP										
2	3	Husky	20.5	—	—	—	—	48	1 Fd.	—
		Jubilee	28.0	—	—	—	—	46	1 Fd.	—
		Hannchen	27.4	—	—	—	—	51	2CW 2R	S.
		Betzes	23.2	—	—	—	—	50	3CW 2R	S.
		Palliser	37.9	—	—	—	—	48	3CW 2R	—
Necessary difference—3.55 bushels			Rainfall—May to August—7.36 inches							
MAURICE E. GIRAUDIER, WILLOW BUNCH										
2	4	Husky	27.7	85	26	1.5	1.3	39	3 Fd.	S.
		Jubilee	27.8	85	25	1.3	1.8	42	3 Fd.	S.
		Hannchen	35.8	84	23	1.5	1.8	48	1 Fd.	S.
		Betzes	38.6	84	21	1.5	1.8	47	1 Fd.	S.
		Palliser	28.2	84	27	1.8	2.3	43	2 Fd.	S.
Necessary difference—5.09 bushels			Rainfall—May to August—7.13 inches							

Wheat Pool District 2—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
DWIGHT D. OLLENBERGER, WOODROW										
2	6	Husky	14.2	—	—	2.0	2.0	49	1 Fd.	—
		Jubilee	20.6	—	—	2.0	3.0	48	1 Fd.	—
		Hannchen	21.5	—	—	2.0	2.0	53	2CW 2R	—
		Betzes	22.7	—	—	2.0	2.0	54	2CW 2R	—
		Palliser	22.8	—	—	2.0	2.0	49	3CW 2R	—
Necessary difference—2.69 bushels			Rainfall—May to August—5.08 inches							
RICHARD J. TONITA, FLINTOFT										
2	7	Husky	11.6	—	—	—	—	33	3 Fd.	—
		Jubilee	20.0	—	—	—	—	35	3 Fd.	—
		Hannchen	10.4	—	—	—	—	43	2 Fd.	—
		Betzes	17.6	—	—	—	—	40	3 Fd.	—
		Palliser	25.5	—	—	—	—	38	3 Fd.	—
Necessary difference—4.25 bushels			Rainfall record incomplete							
KENNETH J. BERNER, VERWOOD										
2	8	Husky	18.3	—	19	1.3	1.5	33	3 Fd.	S.
		Jubilee	22.5	—	20	1.3	1.0	31	3 Fd.	S.
		Hannchen	24.7	—	19	1.3	2.0	41	3 Fd.	S.
		Betzes	27.8	—	18	1.5	2.0	40	3 Fd.	S.
		Palliser	29.1	—	19	1.3	1.5	38	3 Fd.	S.
Necessary difference—2.65 bushels			Rainfall—May to August—6.33 inches							
ROBERT R. DUNN, OGEMA										
2	9	Husky	16.8	94	26	3.8	2.0	42	3 Fd.	S.
		Jubilee	24.8	89	27	4.3	2.0	41	3 Fd.	S.
		Hannchen	19.7	94	25	3.0	2.0	49	1 Fd.	S.
		Betzes	25.0	89	24	2.8	2.0	46	1 Fd.	S.
		Palliser	37.5	94	30	4.5	2.0	44	2 Fd.	S.
Necessary difference—4.16 bushels			Rainfall—May to August—9.89 inches							
DENNIS E. WEBSTER, TROSSACHS										
2	10	Husky	32.7	80	27	1.0	1.0	38	3 Fd.	S.
		Jubilee	42.8	80	28	1.3	1.0	39	3 Fd.	S.
		Hannchen	34.9	79	27	2.0	2.8	46	1 Fd.	S.
		Betzes	37.3	81	24	2.0	2.0	43	2 Fd.	S.
		Palliser	35.6	79	24	1.8	2.0	43	2 Fd.	S.
Necessary difference—5.35 bushels			Rainfall record incomplete							
BRIAN J. SWEENEY, BENGOUGH										
2	11	Husky	20.9	—	30	—	—	51	1 Fd.	—
		Jubilee	26.0	—	31	—	—	50	1 Fd.	—
		Hannchen	37.3	—	29	—	—	53	3CW 2R	S.
		Betzes	36.3	—	30	—	—	53	2CW 2R	S.
		Palliser	45.7	—	31	—	—	49	3CW 2R	—
Necessary difference—6.02 bushels			Rainfall—May to August—6.89 inches							

WHEAT POOL DISTRICT 3

HENRY RONCERAY, VALMARIE										
3	2	Husky	23.9	—	14	8.0	3.0	42	3 Fd.	S.
		Jubilee	29.4	—	15	8.0	3.0	40	3 Fd.	S.
		Hannchen	31.9	—	14	7.0	2.0	48	1 Fd.	S.
		Betzes	34.1	—	14	6.0	2.0	47	1 Fd.	S.
		Palliser	41.7	—	16	7.0	3.0	46	1 Fd.	S.
Necessary difference—3.58 bushels			Rainfall—May to August—2.82 inches							
MELVIN S. SMITH, CLIMAX										
3	3	Husky	4.1	80	13	2.0	2.0	42	3 Fd.	S.
		Jubilee	5.8	79	12	2.0	2.0	39	3 Fd.	S.
		Hannchen	8.5	79	12	2.0	2.0	43	2 Fd.	S.
		Betzes	10.6	80	13	1.0	1.0	39	3 Fd.	S.
		Palliser	12.7	80	13	2.0	2.0	39	3 Fd.	S.
Necessary difference—1.63 bushels			Rainfall—May to August—3.39 inches							
GARY G. SANFORD, CLAYDON										
3	4	Husky	17.6	—	—	—	—	46	1 Fd.	—
		Jubilee	20.3	—	—	—	—	46	1 Fd.	—
		Hannchen	21.9	—	—	—	—	50	3CW 2R	—
		Betzes	22.1	—	—	—	—	51	2CW 2R	—
		Palliser	23.3	—	—	—	—	47	3CW 2R	—
Yield differences not significant			Rainfall record incomplete							

Wheat Pool District 3—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
ALFRED J. PIERCE, CONSUL										
3	5	Husky	19.5	78	22	2.5	1.0	35	3 Fd.	S.
		Jubilee	21.3	78	21	2.5	1.0	34	3 Fd.	S.
		Hannchen	24.6	80	20	2.0	1.5	42	3 Fd.	S.
		Betzes	22.4	78	21	3.0	1.0	40	3 Fd.	S.
		Palliser	22.5	79	21	2.5	1.5	37	3 Fd.	S.
Necessary difference—2.94 bushels			Rainfall—May to August—2.75 inches							
STEWART D. ADAM, EASTEND										
3	6	Husky	42.6	—	19	2.5	2.3	51	1 Fd.	—
		Jubilee	51.7	—	19	2.0	2.0	49	1 Fd.	—
		Hannchen	54.4	—	18	3.0	3.0	52	2CW 2R	—
		Betzes	49.7	—	17	3.5	3.0	50	2CW 2R	—
		Palliser	57.4	—	19	2.0	2.5	50	3CW 2R	—
Necessary difference—7.33 bushels			Rainfall—May to August—3.69 inches							
EVELYN PIDT, EASTEND										
3	7	Husky	35.5	71	—	8.0	2.0	47	1 Fd.	—
		Jubilee	35.8	70	—	8.0	3.0	46	1 Fd.	—
		Hannchen	44.7	69	—	8.0	3.0	49	1 Fd.	S.
		Betzes	42.5	67	—	8.0	3.0	46	1 Fd.	S.
		Palliser	49.8	68	—	8.0	3.0	47	3CW 2R	—
Necessary difference—4.82 bushels			Rainfall—May to August—3.58 inches							
WAYNE G. OBERLE, SHAUNAVON										
3	8	Husky	40.4	66	26	1.0	2.0	43	2 Fd.	S.
		Jubilee	45.4	65	25	1.0	2.0	45	2 Fd.	S.
		Hannchen	47.3	67	23	6.0	3.0	51	1 Fd.	S.
		Betzes	45.6	67	20	6.0	3.0	49	1 Fd.	S.
		Palliser	50.2	65	24	1.0	2.0	47	3CW 2R	—
Necessary difference—2.24 bushels			Rainfall—May to August—5.36 inches							
DAVID CALVIN, HAZENMORE										
3	10	Husky	25.8	—	20	—	—	44	2 Fd.	S.
		Jubilee	30.8	—	20	—	—	46	1 Fd.	S.
		Hannchen	37.6	—	24	—	—	50	1 Fd.	S.
		Betzes	34.0	—	22	—	—	51	3CW 2R	S.
		Palliser	37.7	—	23	—	—	47	3CW 2R	S.
Necessary difference—6.78 bushels			Rainfall—May to August—5.74 inches							

WHEAT POOL DISTRICT 4

LAIRD O. MURRAY, TOMPKINS										
4	1	Husky	54.3	—	—	—	—	51	1 Fd.	—
		Jubilee	57.6	—	—	—	—	49	1 Fd.	S.
		Hannchen	57.3	—	—	—	—	52	3CW 2R	T.
		Betzes	56.8	—	—	—	—	51	3CW 2R	T.
		Palliser	65.5	—	—	—	—	50	3CW 2R	—
Necessary difference—5.67 bushels				Rainfall record incomplete						
BRUCE M. REIMER, LEINAN										
4	3	Husky	37.2	89	31	1.0	1.5	38	3 Fd.	T.
		Jubilee	46.2	89	31	1.0	1.3	41	3 Fd.	T.
		Hannchen	36.8	89	28	1.0	2.0	44	2 Fd.	T.
		Betzes	39.0	89	27	1.0	2.3	42	3 Fd.	T.
		Palliser	38.4	89	32	1.0	1.3	43	2 Fd.	T.
Yield differences not significant				Rainfall—May to August—6.31 inches						
ANN AND LARRY DE MARS, WEBB										
4	4	Husky	—	—	17	2.3	1.7	47	1 Fd.	S.
		Jubilee	—	—	17	1.5	2.5	45	2 Fd.	S.
		Hannchen	—	—	16	2.5	2.8	52	1 Fd.	S.
		Betzes	—	—	15	2.0	2.3	51	1 Fd.	S.
		Palliser	—	—	19	2.3	2.5	47	3CW 2R	—
Test damaged by mice—yields not reliable				Rainfall—May to August—3.99 inches						
DENNIS E. SCHULER, HILDA										
4	7	Husky	17.4	—	21	—	1.8	35	3 Fd.	S.
		Jubilee	18.3	—	22	—	1.3	36	3 Fd.	S.
		Hannchen	24.6	—	22	—	1.0	46	1 Fd.	S.
		Betzes	27.8	—	22	—	2.0	44	2 Fd.	S.
		Palliser	26.0	—	22	—	1.3	43	2 Fd.	S.
Necessary difference—5.68 bushels				Rainfall—May to August—3.49 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
4	5	Robert A. Oldhaver, Cabri								
4	8	Kenneth J. Eirich, Leader								
4	9	Robert H. Staple, Sceptre								

WHEAT POOL DISTRICT 5

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
H. WAYNE SULLY, ARDILL										
5	1	Husky	36.7	84	26	5.8	2.0	47	1 Fd.	S.
		Jubilee	54.8	84	26	4.0	2.0	48	1 Fd.	—
		Hannchen	46.3	84	25	5.0	2.0	53	2CW 2R	—
		Betzes	46.7	83	26	2.5	2.0	51	1 Fd.	S.
		Palliser	52.0	83	26	2.5	2.0	50	3CW 2R	—
Necessary difference—5.26 bushels			Rainfall—May to August—11.43 inches							
JANET AND MARK MULATZ, ARBUTHNOT										
5	2	Husky	33.7	96	23	3.5	1.8	51	1 Fd.	—
		Jubilee	34.6	94	22	6.8	2.8	52	1 Fd.	—
		Hannchen	33.9	95	21	4.3	2.8	55	2CW 2R	—
		Betzes	30.0	94	19	3.3	2.8	54	2CW 2R	—
		Palliser	33.7	93	24	5.3	2.0	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—8.54 inches							
GORDON E. WELLS, SWIFT CURRENT										
5	4	Husky	17.7	—	22	—	—	51	1 Fd.	—
		Jubilee	23.7	—	23	—	—	50	1 Fd.	—
		Hannchen	33.7	—	25	—	—	54	3CW 2R	—
		Betzes	37.9	—	24	—	—	53	3CW 2R	—
		Palliser	38.2	—	23	—	—	52	3CW 2R	—
Necessary difference—6.68 bushels			Rainfall record incomplete							
RONALD A. BARKMAN, FLOWING WELL										
5	5	Husky	54.4	91	32	1.8	1.3	53	1 Fd.	—
		Jubilee	63.2	90	31	1.8	2.0	52	1 Fd.	—
		Hannchen	59.8	91	31	2.3	2.0	55	1CW 2R	—
		Betzes	64.5	90	29	2.0	2.3	55	1CW 2R	—
		Palliser	72.2	91	34	5.3	2.8	52	3CW 2R	—
Necessary difference—7.05 bushels			Rainfall—May to August—9.01 inches							
GARRY C. SHELDON, OLD WIVES										
5	6	Husky	12.6	97	23	2.5	1.5	46	1 Fd.	—
		Jubilee	16.4	96	28	2.0	1.0	49	1 Fd.	—
		Hannchen	21.3	95	29	2.8	1.3	53	3CW 2R	W.
		Betzes	22.7	96	26	2.8	1.8	54	3CW 2R	W.
		Palliser	38.9	97	32	3.3	1.5	50	3CW 2R	W.
Necessary difference—4.46 bushels			Rainfall—May to August—11.62 inches							
PATRICK B. MORRISON, ARCHYDAL										
5	7	Husky	—	99	38	4.0	2.0	49	1 Fd.	S.
		Jubilee	—	99	43	2.0	1.0	48	1 Fd.	S.
		Hannchen	—	99	36	7.0	2.8	52	1 Fd.	S.
		Betzes	—	99	38	4.0	2.0	50	1 Fd.	S.
		Palliser	—	99	40	3.0	2.3	50	3CW 2R	—
Test damaged by shattering—yields not reliable			Rainfall—May to August—9.95 inches							
DARLENE G. NELSON, AQUADELL										
5	9	Husky	82.1	89	38	1.0	1.8	53	1 Fd.	—
		Jubilee	86.7	86	35	1.5	2.3	52	1 Fd.	—
		Hannchen	79.5	86	32	6.3	2.8	55	2CW 2R	—
		Betzes	84.7	86	30	4.3	2.8	55	1CW 2R	—
		Palliser	87.2	87	35	5.3	2.0	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—7.33 inches							
ALICE M. DOELL, HERBERT										
5	10	Husky	34.4	—	—	1.3	2.0	37	3 Fd.	S.
		Jubilee	41.3	—	—	1.0	1.3	38	3 Fd.	S.
		Hannchen	34.6	—	—	1.0	1.8	43	2 Fd.	S.
		Betzes	40.2	—	—	1.0	2.0	41	3 Fd.	S.
		Palliser	51.8	—	—	1.3	2.0	41	3 Fd.	S.
Necessary difference—5.60 bushels			Rainfall—May to August—7.14 inches							

WHEAT POOL DISTRICT 6

LYNDA M. L. KUSHNIR, RICETON										
6	2	Husky	55.7	85	29	1.0	1.8	46	1 Fd.	—
		Jubilee	61.1	83	28	1.0	1.0	44	2 Fd.	T.
		Hannchen	57.7	80	29	1.0	1.8	49	1 Fd.	T.
		Betzes	68.2	79	29	1.0	2.0	49	1 Fd.	T.
		Palliser	73.5	81	33	1.0	1.0	48	3CW 2R	—
Necessary difference—6.85 bushels			Rainfall—May to August—8.56 inches							

Wheat Pool District 6—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
LEROY P. LARSEN, PARRY										
6	3	Husky	52.4	—	—	—	—	49	1 Fd.	—
		Jubilee	56.3	—	—	—	—	50	1 Fd.	—
		Hannchen	61.8	—	—	—	—	52	2CW 2R	S.
		Betzes	63.3	—	—	—	—	52	2CW 2R	S.
		Palliser	68.7	—	—	—	—	51	3CW 2R	S.
Necessary difference—5.50 bushels			Rainfall—May to August—8.99 inches							
HARVEY E. THIELE, SPRING VALLEY										
6	4	Husky	67.1	86	30	8.0	2.0	51	1 Fd.	—
		Jubilee	82.2	86	30	6.0	1.8	52	1 Fd.	—
		Hannchen	66.7	86	30	8.0	2.0	49	2CW 2R	—
		Betzes	76.2	86	30	9.0	2.0	52	1CW 2R	—
		Palliser	74.5	85	30	8.0	2.0	48	3CW 2R	—
Yield differences not significant			Rainfall—May to August—10.66 inches							
GARY E. MCKENZIE, BELBECK										
6	5	Husky	54.7	—	27	2.0	1.0	53	1 Fd.	—
		Jubilee	67.3	—	28	1.0	1.0	52	1 Fd.	—
		Hannchen	58.7	—	28	5.0	2.0	54	2CW 2R	—
		Betzes	59.4	—	24	2.8	2.0	53	2CW 2R	—
		Palliser	68.9	—	30	1.0	1.0	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—7.11 inches							
BONNY LYNNE GIBBONS, GILLESPIE										
6	9	Husky	53.9	86	33	1.0	1.0	48	1 Fd.	—
		Jubilee	60.7	86	31	2.0	2.0	48	1 Fd.	—
		Hannchen	64.7	85	33	1.8	1.3	54	3CW 2R	T.
		Betzes	56.0	86	34	5.8	3.0	53	3CW 2R	T.
		Palliser	69.7	86	35	3.3	2.3	49	3CW 2R	—
Necessary difference—5.94 bushels			Rainfall—May to August—5.95 inches							
MURRAY A. SEIDLER, DISLEY										
6	10	Husky	65.6	85	42	2.0	1.0	46	1 Fd.	—
		Jubilee	74.5	86	44	1.0	1.0	47	1 Fd.	—
		Hannchen	69.8	85	40	2.0	1.0	50	1 Fd.	T.
		Betzes	69.5	84	36	5.0	2.0	49	1 Fd.	T.
		Palliser	74.4	84	42	2.0	1.0	44	3 Fd.	T.
Necessary difference—6.27 bushels			Rainfall—May to August—7.31 inches							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
6	7	David J. Cameron, Regina								

WHEAT POOL DISTRICT 7

ROY T. RICHARDS, WAWOTA										
7	3	Husky	32.1	—	—	—	—	44	2 Fd.	S.
		Jubilee	45.5	—	—	—	—	44	2 Fd.	S.
		Hannchen	46.3	—	—	—	—	49	1 Fd.	S.
		Betzes	38.9	—	—	—	—	48	1 Fd.	S.
		Palliser	46.1	—	—	—	—	49	3CW 2R	S.
Necessary difference—5.47 bushels				Rainfall—May to August—8.34 inches						
DENNIS W. MILLER, WINDTHORST										
7	4	Husky	59.4	82	34	—	—	48	1 Fd.	—
		Jubilee	69.3	86	27	—	—	46	1 Fd.	—
		Hannchen	58.4	82	30	—	—	49	1 Fd.	S.
		Betzes	59.2	85	30	—	—	46	1 Fd.	—
		Palliser	66.0	84	36	—	—	47	3CW 2R	—
Yield differences not significant				Rainfall—May to August—6.90 inches						
GARY E. MORRIS, FILLMORE										
7	5	Husky	68.1	89	34	1.0	1.0	40	3 Fd.	S.
		Jubilee	71.9	89	34	1.0	1.3	41	3 Fd.	S.
		Hannchen	69.0	89	32	2.3	2.0	46	1 Fd.	S.
		Betzes	71.6	89	33	2.0	1.8	44	2 Fd.	S.
		Palliser	70.7	89	34	2.0	1.8	44	1 Fd.	S.
Yield differences not significant				Rainfall—May to August—7.44 inches						
CECIL H. LEECH, GLENAVON										
7	6	Husky	21.9	—	—	—	—	46	1 Fd.	—
		Jubilee	33.1	—	—	—	—	46	1 Fd.	—
		Hannchen	40.2	—	—	—	—	48	3CW 2R	W.
		Betzes	39.0	—	—	—	—	49	3CW 2R	W.
		Palliser	35.0	—	—	—	—	47	3CW 2R	W.
Necessary difference—5.77 bushels				Rainfall record incomplete						

Wheat Pool District 7—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
LLOYD W. MINTY, ROCANVILLE										
7	8	Husky	38.6	—	—	—	—	50	1 Fd.	S.
		Jubilee	45.3	—	—	—	—	50	1 Fd.	S.
		Hannchen	46.1	—	—	—	—	56	2CW 2R	S.
		Betzes	44.7	—	—	—	—	54	3CW 2R	S.
		Palliser	46.6	—	—	—	—	53	3CW 2R	—
Necessary difference—5.16 bushels				Rainfall—May to August—8.43 inches						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
7	5	Ralph C. Wood, Corning								

WHEAT POOL DISTRICT 8

KATHERINE KOROL, DONWELL										
8	5	Husky	30.1	83	28	3.0	1.0	49	1 Fd.	—
		Jubilee	41.0	81	29	2.0	1.0	48	1 Fd.	—
		Hannchen	34.1	83	27	4.0	2.0	52	3CW 2R	T.
		Betzes	41.9	81	28	3.0	1.0	53	2CW 2R	T.
		Palliser	43.7	83	29	3.0	1.0	49	3CW 2R	—
Necessary difference—5.90 bushels			Rainfall—May to August—3.97 inches							
JAMES R. McBRIDE, TADMORE										
8	6	Husky	39.7	80	26	1.0	1.0	47	1 Fd.	—
		Jubilee	50.0	80	24	1.0	1.0	47	1 Fd.	—
		Hannchen	47.7	80	29	5.0	3.0	53	3CW 2R	S.
		Betzes	47.5	80	24	4.0	3.0	48	1 Fd.	T.
		Palliser	61.8	80	30	2.0	3.0	49	3CW 2R	—
Necessary difference—8.35 bushels			Rainfall—May to August—5.60 inches							
LYNN M. ROSAASEN, HINCHLIFFE										
8	8	Husky	55.1	78	26	2.0	1.0	48	1 Fd.	—
		Jubilee	75.6	78	25	2.0	1.5	48	1 Fd.	—
		Hannchen	68.1	78	26	5.5	2.0	52	3CW 2R	W.
		Betzes	61.1	78	22	5.5	2.5	51	3CW 2R	—
		Palliser	59.5	78	25	3.0	2.0	48	3CW 2R	—
Part of test destroyed— yields not included in area summary			Rainfall—May to August—6.09 inches							
RUSSELL SAWCHUK, ARRAN										
8	10	Husky	40.2	91	17	1.8	1.3	50	1 Fd.	—
		Jubilee	43.4	89	16	1.8	1.5	52	1 Fd.	—
		Hannchen	33.6	89	14	1.8	2.0	56	2CW 2R	W.
		Betzes	34.9	89	16	2.5	2.8	54	2CW 2R	W.
		Palliser	44.1	88	17	1.5	1.8	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—6.98 inches							
THERESA NICHOLLS, VEILLARDVILLE										
8	11	Husky	30.1	86	21	3.8	2.8	42	3 Fd.	G., S.
		Jubilee	41.1	86	20	5.3	3.0	42	3 Fd.	G., S.
		Hannchen	42.5	86	22	5.5	3.0	47	1 Fd.	G., S.
		Betzes	35.8	85	22	3.8	3.0	44	2 Fd.	G., S.
		Palliser	40.0	86	22	5.5	3.0	43	2 Fd.	—
Necessary difference—8.35 bushels			Rainfall—May to August—9.32 inches							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
8	3	Ronald Kolodziejak, Otthon								

WHEAT POOL DISTRICT 9

BETTY TKATCH, JASMIN										
9	1	Husky	51.4	103	27	1.5	1.3	51	1 Fd.	—
		Jubilee	54.4	105	25	3.0	1.0	49	1 Fd.	—
		Hannchen	48.7	104	29	6.3	1.5	55	1CW 2R	—
		Betzes	48.2	104	25	4.0	2.0	52	2CW 2R	—
		Palliser	21.4	105	28	8.0	3.0	51	3CW 2R	—
Palliser damaged by shattering— yields not included in area summary					Rainfall—May to August—8.54 inches					
L. WAYNE APPENHEIMER, CUPAR										
9	2	Husky	23.8	—	—	—	—	48	1 Fd.	—
		Jubilee	31.6	—	—	—	—	49	1 Fd.	—
		Hannchen	30.7	—	—	—	—	52	1 Fd.	S.
		Betzes	40.1	—	—	—	—	48	1 Fd.	S.
		Palliser	60.8	—	—	—	—	50	3CW 2R	S.
Yields variable—not included in area summary					Rainfall record incomplete					

Wheat Pool District 9—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seedling to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
MURRAY J. MALCOLM, BULYEA										
9	4	Husky	28.2	—	25	3.0	1.0	44	2 Fd.	S.
		Jubilee	31.0	—	28	2.0	1.0	46	1 Fd.	S.
		Hannchen	40.0	—	25	3.0	1.0	52	3CW 2R	S.
		Betzes	42.7	—	26	2.0	2.0	52	3CW 2R	S.
		Palliser	40.0	—	36	4.0	2.0	47	3CW 2R	S.
Yield differences not significant					Rainfall—May to August—7.33 inches					
T. ROBERT HALSTEAD, NOKOMIS										
9	6	Husky	60.4	89	33	2.0	2.0	46	1 Fd.	S.
		Jubilee	72.3	88	32	3.0	3.0	46	1 Fd.	—
		Hannchen	67.9	89	31	3.0	3.0	51	3CW 2R	—
		Betzes	68.6	87	30	3.0	3.0	50	3CW 2R	—
		Palliser	70.4	87	32	2.0	2.0	49	3CW 2R	—
Necessary difference—6.96 bushels					Rainfall—May to August—6.14 inches					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
9	10	Stephen E. George, Elfros								

WHEAT POOL DISTRICT 10

HARVEY L. SMITH, DILKE										
10	1	Husky	6.4	—	—	—	—	41	3 Fd.	—
		Jubilee	14.7	—	—	—	—	43	2 Fd.	—
		Hannchen	13.5	—	—	—	—	51	1 Fd.	S.
		Betzes	14.0	—	—	—	—	49	1 Fd.	S.
		Palliser	28.6	—	—	—	—	46	1 Fd.	—
Test damaged by grasshoppers— yields not included in area summary				Rainfall record incomplete						
CALVIN B. KING, BRIDGEFORD										
10	2	Husky	—	—	—	—	—	47	1 Fd.	—
		Jubilee	—	—	—	—	—	45	2 Fd.	—
		Hannchen	—	—	—	—	—	46	1 Fd.	T.
		Betzes	—	—	—	—	—	44	2 Fd.	—
		Palliser	—	—	—	—	—	46	1 Fd.	—
Test damaged by shattering—yields not reliable				Rainfall—May to August—7.66 inches						
RONALD B. PROCKNOW, LUCKY LAKE										
10	3	Husky	—	—	—	—	—	47	1 Fd.	—
		Jubilee	—	—	—	—	—	46	1 Fd.	—
		Hannchen	—	—	—	—	—	52	3CW 2R	T.
		Betzes	—	—	—	—	—	50	3CW 2R	T.
		Palliser	—	—	—	—	—	48	3CW 2R	—
Test damaged—yields not reliable				Rainfall record incomplete						
DOUGLAS W. KEITH, SOVEREIGN										
10	4	Husky	45.6	93	27	3.0	1.8	47	1 Fd.	S.
		Jubilee	52.1	93	28	2.5	2.3	49	1 Fd.	S.
		Hannchen	51.6	89	27	2.8	2.0	54	3CW 2R	T.
		Betzes	54.5	88	26	4.0	3.0	53	3CW 2R	T.
		Palliser	63.0	92	29	4.5	2.0	50	3CW 2R	—
Necessary difference—5.95 bushels				Rainfall—May to August—6.23 inches						
ERNEST LATSAY, BOUNTY										
10	5	Husky	50.5	—	—	—	—	44	2 Fd.	—
		Jubilee	58.7	—	—	—	—	44	2 Fd.	—
		Hannchen	54.0	—	—	—	—	49	3CW 2R	S.
		Betzes	52.7	—	—	—	—	48	3CW 2R	S.
		Palliser	62.9	—	—	—	—	47	3CW 2R	—
Necessary difference—6.07 bushels				Rainfall—May to August—4.89 inches						
RONALD FOLLICK, STRONGFIELD										
10	6	Husky	71.5	91	39	2.8	1.3	49	1 Fd.	—
		Jubilee	77.4	91	37	2.3	1.0	50	1 Fd.	—
		Hannchen	65.9	89	37	4.8	2.8	53	2CW 2R	S.
		Betzes	70.5	87	34	2.8	1.8	51	2CW 2R	S.
		Palliser	75.3	88	37	3.5	1.8	49	3CW 2R	—
Yield differences not significant				Rainfall—May to August—6.36 inches						
FRANK E. LOCKWOOD, DAVIDSON										
10	7	Husky	56.0	91	29	1.5	1.8	49	1 Fd.	—
		Jubilee	55.1	91	29	1.5	1.0	47	1 Fd.	—
		Hannchen	54.9	91	30	1.3	2.8	51	1 Fd.	S.
		Betzes	50.0	91	28	1.8	3.0	50	1 Fd.	S.
		Palliser	62.2	92	31	2.0	1.8	48	3CW 2R	—
Yield differences not significant				Rainfall—May to August—5.64 inches						

Wheat Pool District 10—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
FREDDIE A. WOLFF, LIBERTY										
10	8	Husky	33.6	86	28	1.0	1.3	40	3 Fd.	—
		Jubilee	31.6	86	27	2.0	2.8	40	3 Fd.	—
		Hannchen	32.6	87	28	2.0	1.8	47	1 Fd.	—
		Betztes	30.7	86	25	2.0	2.3	43	2 Fd.	—
		Palliser	33.4	85	28	2.0	2.5	43	2 Fd.	—
Yield differences not significant			Rainfall—May to August—6.60 inches							
ERNEST R. ADAIR, HARRIS										
10	10	Husky	23.6	—	—	1.8	1.3	41	3 Fd.	—
		Jubilee	34.8	—	—	2.3	1.3	42	3 Fd.	—
		Hannchen	33.8	—	—	3.0	1.5	47	1 Fd.	—
		Betztes	41.8	—	—	4.5	3.0	44	2 Fd.	—
		Palliser	44.1	—	—	7.5	2.0	44	2 Fd.	—
Necessary difference—6.63 bushels			Rainfall—May to August—6.40 inches							

WHEAT POOL DISTRICT 11

ARNOLD B. VERMETTE, ELROSE										
11	1	Husky	31.1	—	24	4.0	2.0	44	2 Fd.	—
		Jubilee	41.8	—	26	3.0	2.0	47	1 Fd.	—
		Hannchen	37.1	—	25	2.0	2.0	51	1 Fd.	S.
		Betzes	42.3	—	24	2.0	2.0	49	1 Fd.	S.
		Palliser	52.1	—	27	2.0	2.0	47	3CW 2R	—
Necessary difference—4.98 bushels			Rainfall—May to August—5.50 inches							
BARRY A. T. MARCHAND, ROSETOWN										
11	2	Husky	—	—	—	—	—	47	1 Fd.	—
		Jubilee	—	—	—	—	—	48	1 Fd.	—
		Hannchen	—	—	—	—	—	52	1 Fd.	T.
		Betzes	—	—	—	—	—	51	1 Fd.	T.
		Palliser	—	—	—	—	—	49	3CW 2R	T.
Test damaged—yields not reliable			Rainfall—May to August—5.22 inches							
HERBERT AND DUANE LOCK, KINDERSLEY										
11	5	Husky	13.1	—	—	—	—	47	1 Fd.	—
		Jubilee	15.1	—	—	—	—	49	1 Fd.	—
		Hannchen	19.0	—	—	—	—	53	2CW 2R	T.
		Betzes	19.3	—	—	—	—	52	2CW 2R	T.
		Palliser	14.4	—	—	—	—	51	3CW 2R	—
Necessary difference—3.91 bushels			Rainfall record incomplete							
ROBERT C. PATON, GLAMIS										
11	7	Husky	64.6	79	29	1.3	1.5	47	1 Fd.	—
		Jubilee	65.7	79	31	1.0	1.0	49	1 Fd.	—
		Hannchen	55.2	79	29	1.8	1.8	54	3CW 2R	S.
		Betzes	66.7	79	29	1.8	2.3	53	3CW 2R	S.
		Palliser	65.3	79	33	1.3	1.3	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—6.55 inches							
GREGORY R. MARTIN, HERSHEY										
11	8	Husky	41.9	88	27	3.8	2.0	38	3 Fd.	—
		Jubilee	50.6	88	26	2.0	2.0	43	2 Fd.	—
		Hannchen	41.8	85	24	2.0	2.0	46	1 Fd.	—
		Betzes	47.8	85	24	3.0	3.0	44	2 Fd.	—
		Palliser	51.6	86	27	2.0	2.0	44	2 Fd.	—
Yield differences not significant			Rainfall—May to August—6.33 inches							
JANET PEACOCK, BEAUFIELD										
11	9	Husky	14.6	—	20	2.0	2.3	47	1 Fd.	—
		Jubilee	17.4	—	19	2.5	1.8	47	1 Fd.	—
		Hannchen	20.1	—	22	2.3	2.5	53	3CW 2R	S.
		Betzes	22.0	—	19	1.8	2.0	52	3CW 2R	S.
		Palliser	24.0	—	20	1.0	1.3	48	3CW 2R	—
Necessary difference—4.49 bushels			Rainfall May to August—5.53 inches							
DARRYL S. CRAIG, DEWAR LAKE										
11	10	Husky	12.9	69	17	4.0	3.0	42	3 Fd.	—
		Jubilee	18.8	72	19	2.0	2.0	38	3 Fd.	—
		Hannchen	18.5	70	19	3.0	2.0	47	1 Fd.	—
		Betzes	21.7	67	18	2.0	2.0	46	1 Fd.	—
		Palliser	20.3	72	20	1.0	1.0	41	3 Fd.	—
Necessary difference—3.78 bushels			Rainfall—May to August—5.03 inches							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
11	4	Dorothy J. Ashley, Mantario								
11	5	Kathleen A. McBride, Marengo								

WHEAT POOL DISTRICT 12

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
FRANK A. NOSEK, BIGGAR										
12	1	Husky	47.7	—	—	—	—	52	1 Fd.	—
		Jubilee	55.2	—	—	—	—	51	1 Fd.	—
		Hannchen	50.7	—	—	—	—	55	1CW 2R	—
		Betzes	49.4	—	—	—	—	55	1CW 2R	—
		Palliser	56.9	—	—	—	—	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—7.03 inches							
HOWARD A. LEHNERT, NASEBY										
12	2	Husky	4.4	—	—	—	—	43	2 Fd.	—
		Jubilee	8.4	—	—	—	—	42	3 Fd.	—
		Hannchen	9.7	—	—	—	—	47	1 Fd.	—
		Betzes	9.2	—	—	—	—	47	1 Fd.	—
		Palliser	12.1	—	—	—	—	45	2 Fd.	—
Necessary difference—2.61 bushels			Rainfall—May to August—5.43 inches							
EDWARD BLEIER, CAVELL										
12	3	Husky	—	—	—	—	—	43	2 Fd.	—
		Jubilee	—	—	—	—	—	39	3 Fd.	—
		Hannchen	—	—	—	—	—	48	3CW 2R	—
		Betzes	—	—	—	—	—	46	1 Fd.	—
		Palliser	—	—	—	—	—	43	2 Fd.	—
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—5.75 inches							
RAY E. TERNAN, LUSELAND										
12	4	Husky	32.9	91	21	2.8	3.0	49	1 Fd.	—
		Jubilee	38.0	85	20	2.3	2.3	49	1 Fd.	—
		Hannchen	35.1	85	22	2.3	2.0	55	2CW 2R	—
		Betzes	37.5	84	19	2.5	3.0	53	3CW 2R	S.
		Palliser	40.0	85	22	2.3	2.0	52	3CW 2R	—
Necessary difference—3.91 bushels			Rainfall—May to August—8.91 inches							
M. LYLE MAY, SALVADOR										
12	5	Husky	18.9	92	22	1.8	1.8	48	1 Fd.	—
		Jubilee	20.8	91	23	1.3	1.0	47	1 Fd.	—
		Hannchen	24.0	90	22	1.5	1.0	51	1 Fd.	S.
		Betzes	29.2	89	21	1.3	2.0	51	1 Fd.	S.
		Palliser	31.8	90	23	1.3	1.5	50	3CW 2R	—
Necessary difference—4.10 bushels			Rainfall—May to August—6.32 inches							
PAUL DIMITROFF, CACTUS LAKE										
12	6	Husky	11.4	93	13	2.0	2.0	48	1 Fd.	—
		Jubilee	25.5	88	15	1.0	1.8	47	1 Fd.	—
		Hannchen	22.7	90	17	2.3	1.3	53	3CW 2R	S.
		Betzes	26.4	86	17	1.0	2.0	49	3CW 2R	S.
		Palliser	29.5	92	20	3.8	2.0	49	3CW 2R	—
Necessary difference—2.80 bushels			Rainfall—May to August—8.12 inches							
GARRY W. GORDAY, SENLAC										
12	7	Husky	23.0	100	—	—	—	49	1 Fd.	—
		Jubilee	23.1	99	—	—	—	48	1 Fd.	—
		Hannchen	22.5	98	—	—	—	53	3CW 2R	W.
		Betzes	23.1	102	—	—	—	52	3CW 2R	W.
		Palliser	26.3	98	—	—	—	48	3CW 2R	—
Yield differences not significant			Rainfall—May to August—9.05 inches							
LLOYD HERZOG, PHIPPEN										
12	9	Husky	7.3	—	—	—	—	46	1 Fd.	—
		Jubilee	12.0	—	—	—	—	48	1 Fd.	—
		Hannchen	6.9	—	—	—	—	51	1 Fd.	S.
		Betzes	6.7	—	—	—	—	49	1 Fd.	S.
		Palliser	13.1	—	—	—	—	48	3CW 2R	—
Necessary difference—3.64 bushels			Rainfall record incomplete							

WHEAT POOL DISTRICT 13

ROGER AND EDNA BENTLEY, VISCOUNT										
13	2	Husky	28.6	93	21	—	1.0	49	1 Fd.	—
		Jubilee	31.9	92	21	—	1.0	49	1 Fd.	—
		Hannchen	34.4	89	22	—	2.0	53	3CW 2R	S.
		Betzes	34.6	89	20	—	3.0	53	3CW 2R	S.
		Palliser	39.8	88	24	—	2.0	49	3CW 2R	—
Necessary difference—4.04 bushels			Rainfall—May to August—7.15 inches							

Wheat Pool District 13—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
JAMES F. BOECHLER, ALLAN										
13	3	Husky	37.8	—	25	1.3	2.0	48	1 Fd.	—
		Jubilee	41.0	—	26	2.5	2.0	47	1 Fd.	—
		Hannchen	40.2	—	25	4.5	2.0	52	2CW 2R	S.
		Betzes	38.4	—	26	3.0	2.0	51	2CW 2R	S.
		Palliser	49.3	—	26	2.8	2.0	48	3CW 2R	—
Yield differences not significant			Rainfall—May to August—6.39 inches							
LINDA K. PAULSON, SASKATOON										
13	4	Husky	38.9	—	27	1.5	1.8	44	2 Fd.	—
		Jubilee	41.8	—	29	1.5	1.8	46	1 Fd.	—
		Hannchen	43.4	—	28	2.0	2.0	47	1 Fd.	T.
		Betzes	45.7	—	28	2.0	2.3	46	1 Fd.	—
		Palliser	57.4	—	28	2.0	1.8	49	3CW 2R	—
Necessary difference — 10.31 bushels			Rainfall—May to August—7.80 inches							
GEORGE A. WIENS, DALMENY										
13	5	Husky	26.5	96	25	2.0	2.0	48	1 Fd.	—
		Jubilee	42.3	96	24	2.0	2.0	49	1 Fd.	—
		Hannchen	38.1	96	23	2.0	2.0	53	2CW 2R	S.
		Betzes	38.7	96	22	2.0	2.0	53	2CW 2R	S.
		Palliser	54.4	95	24	3.0	2.0	48	3CW 2R	—
Necessary difference—1.99 bushels			Rainfall record incomplete							
WALDO E. ELLIOT, SONNINGDALE										
13	7	Husky	—	—	—	—	—	44	3 Fd.	—
		Jubilee	—	—	—	—	—	44	3 Fd.	—
		Hannchen	—	—	—	—	—	51	3CW 2R	T.
		Betzes	—	—	—	—	—	49	1 Fd.	T.
		Palliser	—	—	—	—	—	46	1 Fd.	—
Seeding error—yields not reliable			Rainfall record incomplete							
CONSTANT BANDET, PRUD'HOMME										
13	8	Husky	9.5	—	—	—	—	44	2 Fd.	—
		Jubilee	12.4	—	—	—	—	43	2 Fd.	—
		Hannchen	15.1	—	—	—	—	49	1 Fd.	T.
		Betzes	15.2	—	—	—	—	48	1 Fd.	T.
		Palliser	15.2	—	—	—	—	46	1 Fd.	—
Necessary difference—2.36 bushels			Rainfall record incomplete							
BERNARD J. MARTIN, ST. BRIEUX										
13	11	Husky	65.0	—	24	2.0	1.0	51	1 Fd.	—
		Jubilee	81.3	—	20	2.0	1.0	52	1 Fd.	—
		Hannchen	58.9	—	20	3.5	1.8	52	3CW 2R	W.
		Betzes	58.9	—	18	5.0	2.5	49	3CW 2R	W.
		Palliser	81.5	—	25	3.0	2.0	50	3CW 2R	—
Necessary difference—17.38 bushels			Rainfall—May to August—8.12 inches							

WHEAT POOL DISTRICT 14

LORNE K. TYACKE, SILVER PARK										
14	3	Husky	70.2	—	—	2.0	3.0	48	1 Fd.	—
		Jubilee	74.3	—	—	3.0	2.5	49	1 Fd.	—
		Hannchen	74.8	—	—	5.0	2.0	53	3CW 2R	T.
		Betzes	75.1	—	—	4.0	2.0	52	3CW 2R	T.
		Palliser	75.5	—	—	6.0	2.0	51	3CW 2R	—
Yield differences not significant						Rainfall—May to August—8.77 inches				
JAMES R. MCGOWAN, STAR CITY										
14	8	Husky	62.9	85	28	1.0	1.0	52	1 Fd.	—
		Jubilee	74.2	86	27	1.0	1.0	52	1 Fd.	—
		Hannchen	64.9	82	26	4.0	2.0	56	1CW 2R	—
		Betzes	63.6	81	23	3.0	3.0	55	1CW 2R	—
		Palliser	67.9	83	25	2.0	2.0	53	3CW 2R	—
Necessary difference—5.35 bushels						Rainfall—May to August—7.31 inches				
ARNOLD R. LEISTER, CLASHMOOR										
14	10	Husky	43.5	95	—	8.8	3.0	46	1 Fd.	—
		Jubilee	45.4	94	—	8.8	3.0	47	1 Fd.	—
		Hannchen	51.8	91	—	7.0	1.3	53	3CW 2R	W.
		Betzes	51.1	92	—	8.0	2.0	51	3CW 2R	W.
		Palliser	51.2	92	—	6.8	2.0	50	3CW 2R	—
Necessary difference—4.78 bushels						Rainfall record incomplete				
Tests discarded on account of damage by flooding, pests, hail, drought, or other causes.										
14	2	Francis L. Weber, Wadena								
14	5	Roger Cote, Perigord								
14	7	E. Eldon Lutz, Mistatim								
14	11	Robert A. Perkins, Codette								

WHEAT POOL DISTRICT 15

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
MIKE SHARANOWSKI, ALVENA										
15	2	Husky	60.6	81	30	1.0	1.0	53	1 Fd.	—
		Jubilee	63.0	80	30	2.0	1.0	53	1 Fd.	—
		Hannchen	62.7	78	31	5.0	2.0	55	2CW 2R	S.
		Betzes	57.1	81	29	2.0	2.0	54	2CW 2R	S.
		Palliser	67.7	78	33	1.0	1.0	52	3CW 2R	—
Yield differences not significant			Rainfall—May to August—5.74 inches							
GUENTER H. HARDER, CARLTON										
15	4	Husky	79.2	97	—	8.0	—	52	1 Fd.	—
		Jubilee	80.3	97	—	8.0	—	51	1 Fd.	—
		Hannchen	72.9	100	—	9.0	—	53	3CW 2R	W.
		Betzes	76.3	97	—	8.0	—	53	3CW 2R	W.
		Palliser	79.3	93	—	8.0	—	50	3CW 2R	—
Necessary difference—4.79 bushels			Rainfall—May to August—9.99 inches							
VERNON G. ROWDEN, STURGEON VALLEY										
15	8	Husky	75.1	105	26	1.0	2.0	51	1 Fd.	—
		Jubilee	84.2	104	25	2.3	2.0	50	1 Fd.	—
		Hannchen	74.8	94	22	5.8	2.5	52	2CW 2R	S.
		Betzes	71.7	98	21	6.0	3.0	52	2CW 2R	S.
		Palliser	82.1	101	24	4.3	2.5	50	3CW 2R	—
Necessary difference—8.71 bushels			Rainfall—May to August—8.42 inches							
FREDERICK P. PETROWICH, PADDOCKWOOD										
15	9	Husky	12.3	92	28	2.0	1.0	51	1 Fd.	—
		Jubilee	16.6	92	24	1.0	1.0	52	1 Fd.	—
		Hannchen	15.2	85	23	4.0	2.0	54	3CW 2R	W.
		Betzes	13.5	85	23	7.0	3.0	50	3CW 2R	W.
		Palliser	18.4	94	28	2.0	2.0	48	3CW 2R	—
Samples incomplete— yields not included in area summary			Rainfall—May to August—7.50 inches							
LARRY SENG, MEATH PARK										
15	10	Husky	19.7	—	—	—	—	43	2 Fd.	—
		Jubilee	36.9	—	—	—	—	45	2 Fd.	—
		Hannchen	28.3	—	—	—	—	49	1 Fd.	S.
		Betzes	23.6	—	—	—	—	44	2 Fd.	—
		Palliser	41.4	—	—	—	—	44	2 Fd.	—
Necessary difference—6.03 bushels			Rainfall record incomplete							
Tests discarded on account of damage by flooding, pests, hail, drought, or other causes.										
15	5	Gerald W. Banda, Marcelin								

WHEAT POOL DISTRICT 16

ROY AND JAMES MOORE, SPEERS										
16	2	Husky	27.8	97	—	1.8	—	44	2 Fd.	—
		Jubilee	35.0	97	—	2.0	—	44	2 Fd.	—
		Hannchen	38.2	97	—	1.0	—	49	1 Fd.	T.
		Betzes	46.1	97	—	1.2	—	48	1 Fd.	—
		Palliser	41.3	97	—	1.0	—	45	2 Fd.	—
Necessary difference—4.21 bushels			Rainfall—May to August—10.23 inches							
RAYMOND A. THOM, EDAM										
16	4	Husky	36.2	99	27	1.0	1.3	44	2 Fd.	—
		Jubilee	42.8	99	27	1.0	1.0	43	2 Fd.	—
		Hannchen	39.0	97	24	2.5	2.0	47	1 Fd.	T.
		Betzes	42.5	97	23	1.0	2.3	46	1 Fd.	—
		Palliser	46.2	99	25	2.8	1.8	46	1 Fd.	—
Necessary difference—3.19 bushels			Rainfall—May to August—10.56 inches							
KEN W. WESSON, MAIDSTONE										
16	5	Husky	70.1	91	36	7.3	1.0	49	1 Fd.	—
		Jubilee	78.9	91	36	6.3	1.0	50	1 Fd.	—
		Hannchen	60.1	88	35	8.3	1.0	49	3CW 2R	W.
		Betzes	58.4	88	33	7.8	1.0	49	3CW 2R	W.
		Palliser	67.5	89	34	7.8	1.0	48	3CW 2R	—
Necessary difference—10.18 bushels			Rainfall—May to August—10.91 inches							
LOUIS DESILETS, PARADISE HILL										
16	7	Husky	46.3	86	—	5.0	2.0	52	1 Fd.	—
		Jubilee	33.6	80	—	6.0	3.0	51	1 Fd.	—
		Hannchen	49.4	83	—	7.0	3.0	53	3CW 2R	W.
		Betzes	53.3	82	—	6.0	3.0	53	3CW 2R	W.
		Palliser	50.7	87	—	4.0	2.0	50	3CW 2R	—
Necessary difference—10.78 bushels			Rainfall—May to August—13.41 inches							

Wheat Pool District 16—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Pounds per measured bushel	Com- mercial grades	Grading remarks
PETER J. SCHMIDT, BRIGHT SAND										
16	8	Husky	41.9	—	—	—	—	50	1 Fd.	—
		Jubilee	45.4	—	—	—	—	51	1 Fd.	—
		Hannchen	38.1	—	—	—	—	51	1 Fd.	W.
		Betzes	42.9	—	—	—	—	51	1 Fd.	W.
		Palliser	39.1	—	—	—	—	49	1 Fd.	W.
Necessary	difference—	4.70 bushels					Rainfall—May to August—	13.49 inches		
LLOYD E. JOHNSON, BELBUTTE										
16	9	Husky	28.3	114	—	1.8	1.3	47	1 Fd.	—
		Jubilee	39.1	112	—	1.0	1.0	48	1 Fd.	—
		Hannchen	51.2	113	—	2.5	2.0	51	3CW 2R	W.
		Betzes	53.1	110	—	4.0	3.0	50	3CW 2R	W.
		Palliser	43.1	110	—	4.5	1.0	49	3CW 2R	—
Necessary	difference—	7.51 bushels					Rainfall—May to August—	9.86 inches		
ROY C. PAGE, MULLINGAR										
16	10	Husky	31.8	105	19	2.0	2.0	47	1 Fd.	—
		Jubilee	38.9	105	19	2.0	2.0	49	1 Fd.	—
		Hannchen	44.9	102	20	2.0	2.0	55	1CW 2R	G.
		Betzes	43.3	102	20	2.0	2.0	54	2CW 2R	G.
		Palliser	46.5	105	19	2.0	2.0	51	3CW 2R	—
Necessary	difference—	4.73 bushels					Rainfall—May to August—	9.94 inches		



Evelyn and Linda Long worked together to conduct a wheat test at Furness. They are shown here as they started harvesting.

RAPE TESTS

A total of 30 rape tests were seeded in 1960. Each test contained the five varieties Golden, Regina II, R-1, Arlo and Polish. An attempt was made to locate rape tests in all areas of the province on the basis of two in each Wheat Pool district. As a result some tests were located in areas where rape would not be grown as a commercial crop. However, the aim of these tests is to compare the varieties and also to assess the effect of different growing conditions on the characteristics of the varieties. The location of the tests is shown on the map on page 5.

DESCRIPTION OF VARIETIES

The varieties of rape included in these tests were of two types. Three varieties were of the Argentine type and two were of the Polish type.

Varieties of the Argentine Type

Varieties of this type are much later in maturity than those of the Polish type. They are taller growing and have smooth, blue-green leaves. The seed is larger than that of the Polish type.

Golden was developed at the Dominion Forage Crops Laboratory, Saskatoon. It is a licensed variety in Canada.

Regina II was developed by the Swedish Seed Association, Svalof, Sweden. It resembles Golden in appearance.

R-1—this is a code number for an unlicensed variety of the Argentine type.

Varieties of the Polish Type

These varieties are early in maturity, have green, crinkled leaves and small seeds.

Polish traces back to seed imported from Europe. It was the first type to be grown in Saskatchewan.

Arlo was developed by the Swedish Seed Association, Svalof, Sweden. It is similar in appearance to Polish. Arlo was licensed in Canada in 1958 and seed was made available for commercial distribution in 1959.

INTERPRETATION OF RESULTS

In addition to the usual calculation of yield, time of ripening, plant height, bushel weight, etc., seed samples from the tests were subjected to laboratory analysis to determine a number of factors which affect the industrial uses of rapeseed oil. A brief outline of the tests conducted and interpretation of the results follows:

Percentage of Oil—Rapeseed oil is the primary product of this crop, so the value of the seed is in direct proportion to the amount of oil which can be extracted from it. For the information of readers interested in the method of analysis, the oil was solvent extracted with petroleum ether from a sample of ground seed.

Percentage of Protein—Rapeseed meal is a by-product of the extraction of oil from the seed. This meal is used as a protein supplement in livestock feeds. The value of the meal is in direct proportion to its protein content.

SUMMARY OF RESULTS BY AREAS

These tests have been summarized by combining the results of tests located in areas in which growing conditions are more or less similar, and where similar yield limiting hazards predominate. The location of these areas is shown on the map on page 56.

Rape tests in several areas of the province suffered damage in 1960 and in a rather large number of cases the damage was so severe that yield results could not be considered reliable. High winds and soil drifting in the spring caused uneven germination in some cases and the hot, dry weather in the

latter part of July affected others. In some northern districts insect infestation caused damage. Rape is not a drought resistant crop and as might be expected, yields in many tests this year were quite low.

TABLE No. 24—AVERAGE YIELDS IN BUSHELS PER ACRE—
SUMMARIZED BY AREAS

Area**	No. of Satis- factory Tests	Golden	Regina II	R-1	Arlo	Polish	Necessary Difference* in Bushels
South-East	4	16.6	15.4	19.6	23.1	22.5	2.17
West, Central and South-West	6	11.5	11.7	11.2	18.4	19.5	1.08
North-East	5	23.1	20.6	21.7	14.5	14.4	1.72
North-West	2	14.8	13.5	12.7	20.9	20.9	2.14

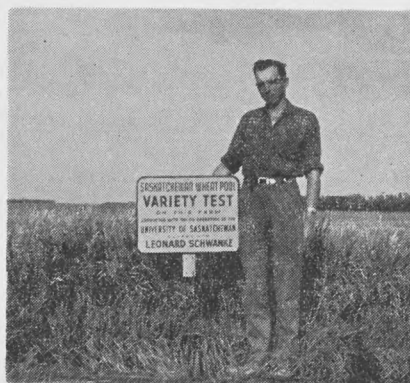
*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

**See map, page 56.

Table No. 24. The yield relationships of these varieties varied considerably from one area of the province to another. In the north-east area where a large proportion of the commercial rapeseed is produced, the late maturing varieties **Golden**, **Regina II** and **R-1** outyielded the other varieties by a substantial margin. In the south-east area **Arlo** was the highest yielding variety while **Polish** was slightly lower. **R-1** was intermediate in yield while **Golden** and **Regina II** placed fourth and fifth respectively. Both the latter varieties were substantially lower in yield than the other three. In the west, central and south-west area **Polish** and **Arlo** placed first and second respectively and both were well above the other three varieties in yield. In the north-west area **Arlo** and **Polish** yielded equally well. **Golden**, **Regina II**, and **R-1** were quite similar in yield and were noticeably below the other two.

TABLE No. 25—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING—
SUMMARIZED BY AREAS

Areas	Golden	Regina II	R-1	Arlo	Polish
South-East	97.0	97.0	97.0	80.3	80.3
West, Central & South-West	100.3	100.3	100.3	81.3	82.7
North-East	94.5	94.5	94.5	75.3	75.3
North-West	103.0	102.7	99.7	82.0	81.0



Leonard Schwanke conducted a wheat test at Kuroki.

Table No. 25. As mentioned in the description of varieties, two distinct types of rape were included in the tests. There was no appreciable difference

in time of maturity between the early varieties Arlo and Polish or among the three late varieties, Golden, Regina II and R-1. However, the early varieties matured approximately twenty days ahead of the others on the average.

TABLE No. 26—AVERAGE HEIGHT OF PLANTS IN INCHES—
SUMMARIZED BY AREAS

Areas	Golden	Regina II	R-1	Arlo	Polish
South-East	30.7	30.0	31.0	29.7	30.0
West, Central & South-West	27.6	26.3	27.3	27.0	26.9
North-East	34.5	33.0	31.0	26.3	26.5
North-West	33.3	33.0	33.0	30.3	30.7

Table No. 26. In the north-east area of the province Arlo and Polish were somewhat shorter than the other varieties, but in other areas of the province there was little difference in plant height. The similarity in height may have been due to the lack of moisture in many areas during the 1960 season.

TABLE No. 27—AVERAGE WEIGHT PER MEASURED BUSHEL—
SUMMARIZED BY AREAS

Areas	Golden	Regina II	R-1	Arlo	Polish
South-East	51.5	51.5	50.5	52.5	53.3
West, Central & South-West	51.7	51.7	51.0	52.7	52.7
North-East	50.6	50.6	49.8	52.0	52.0
North-West	51.7	52.0	51.7	52.0	52.0

Table No. 27. Arlo and Polish were quite consistently higher in bushel weight than the other varieties but there was little difference between these two. Golden and Regina II were generally similar in bushel weight, while R-1 showed, on the average, the lowest bushel weight of the five varieties tested.

TABLE No. 28—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

Variety	CR %	2 CR %	3 CR %	Sample %
Golden	60.0	33.3	6.7	—
Regina II	60.0	33.3	—	6.7
R-1	13.3	73.4	13.3	—
Arlo	86.7	13.3	—	—
Polish	86.7	13.3	—	—

Table No. 28. Arlo and Polish graded well in 1960, both having nearly 87% of the samples in the top grade. Golden and Regina II graded somewhat lower with 60% of the samples falling in the CR grade. R-1 was noticeably lower in grade than the other varieties, due largely to its lower bushel weight.

TABLE No. 29—PERCENTAGE OF OIL—SUMMARIZED BY AREAS

Areas	Golden	Regina II	R-1	Arlo	Polish
South-East	40.2	41.2	43.2	42.1	39.9
West, Central and South-West	38.0	37.0	41.3	39.8	39.7
North-East	43.8	40.1	44.2	40.6	41.4
North-West	45.6	44.6	47.5	45.0	44.8

Table No. 29. Since this crop is grown primarily for its oil, the value of a variety is directly dependent on its oil content. Much of the plant breeding work has been done in an attempt to increase the percentage of oil. As indicated in the table above, R-1 had the highest oil content in all parts of the province. There was some variation in placing of the other four varieties from area to area but on an average basis they placed in the following order: Arlo, Golden, Polish, and Regina II. To make an accurate assessment of each variety, the oil content must be related to yielding ability to get an indication of production of oil per acre. For example, while R-1 exceeds the other varieties in percentage of oil, this advantage is out-weighted in some areas by higher yields of other varieties.

TABLE No. 30—PERCENTAGE OF PROTEIN—SUMMARIZED BY AREAS

Areas	Golden	Regina II	R-1	Arlo	Polish
South-East	50.4	49.8	48.2	46.5	45.2
West, Central and South-West	48.3	47.9	47.0	45.7	43.1
North-East	42.0	41.2	40.4	41.1	40.2
North-West	39.9	39.8	39.2	39.8	38.4

Table No. 30. Rapeseed meal, an important by-product of oil processing, is used as a protein supplement in livestock feed. For this reason the value of a variety is directly related to its protein content. (As the table shows, the varieties were fairly consistent in order of placing.) Golden showed the highest protein content in all areas of the province, while Polish samples contained the lowest percentage. On an average basis Regina II placed second, Arlo third and R-1 fourth.

GRAPHS SHOWING RAPE YIELDS IN 1960

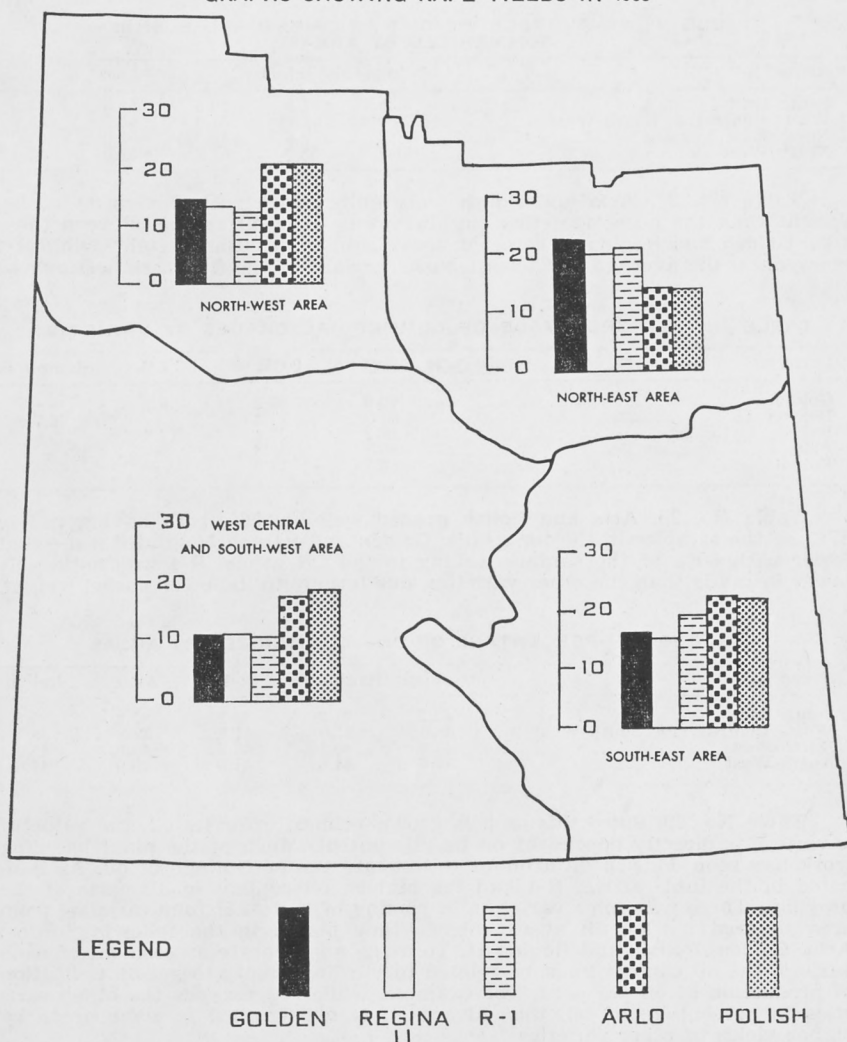


Table No. 31

INDIVIDUAL SUMMARIZED RESULTS OF ALL TESTS—RAPESEED

The results of all successful rape tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 53, headed, "Interpretation of Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the section headed "Performance of Varieties."

WHEAT POOL DISTRICT 1

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Lbs. per measured bushel	Com- mercial grades	% Oil	% Protein
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
1	7	Dennis and Palmer Melby,							
1	8	G. Brian Keefe, Griffin							

WHEAT POOL DISTRICT 2

GARRY F. BARNSELY, ROCKGLEN									
2	5	Golden	—	—	31	—	—	—	—
		Regina II	—	—	31	—	—	—	—
		R-1	—	—	30	—	—	—	—
		Arlo	8.9	—	27	53	CR	—	—
		Polish	7.6	—	27	52	CR	—	—
Golden, Regina II and R-1 destroyed by grasshoppers—yields not included in area summary Rainfall—May to August—9.56 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
2	11	Eric V. Holt, Bengough							

WHEAT POOL DISTRICT 3

HUGH E. McDONOUGH, CRICHTON									
3	9	Golden	—	—	—	—	—	—	—
		Regina II	—	—	—	—	—	—	—
		R-1	—	—	—	—	—	—	—
		Arlo	2.8	80	20	52	CR	—	—
		Polish	3.5	80	20	54	CR	—	—
Golden, Regina II and R-1 destroyed—yields not included in area summary Rainfall—May to August—5.19 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
3	3	Darrell J. Foster, Bracken							

WHEAT POOL DISTRICT 4

HENRY W. LITTLE, HAZLET									
4	10	Golden	2.5	—	22	49	3 CR	34.9	48.3
		Regina II	3.0	—	21	49	3 CR	37.7	48.5
		R-1	2.3	—	22	(A)	—	39.5	46.8
		Arlo	4.1	—	23	52	CR	38.5	48.3
		Polish	5.0	—	21	51	2 CR	37.0	37.2
Yield differences not significant Rainfall—May to August—7.51 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
4	2	Donald R. Anhorn, Golden Prairie							

WHEAT POOL DISTRICT 5

CAROL D. HICKS, MARQUIS									
5	8	Golden	12.0	86	28	52	CR	40.7	48.0
		Regina II	11.1	86	26	52	CR	41.9	46.8
		R-1	15.8	86	27	51	2 CR	43.8	44.7
		Arlo	20.5	78	26	53	CR	43.2	42.4
		Polish	21.0	78	26	53	CR	40.8	41.2
Necessary difference—2.36 bushels Rainfall—May to August—6.32 inches									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
5	3	W. Gary Bettison, Pambrun							

WHEAT POOL DISTRICT 6

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Lbs. per measured bushel	Com- mercial grades	% Oil	% Protein
JOHN S. HALES, MOOSE JAW									
6	5	Golden	1.8	99	30	(A)	—	40.1	44.5
		Regina II	1.3	99	30	(A)	—	39.1	44.5
		R-1	2.8	99	30	50	2 CR	48.1	43.3
		Arlo	8.7	84	29	53	CR	46.3	40.8
		Polish	8.2	84	29	52	CR	46.8	39.9
Necessary difference—1.26 bushels					Rainfall—May to August—9.71 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
6	4	Ronald H. Sanderson, Avonlea							

WHEAT POOL DISTRICT 7

HERBERT G. MAGNUSSON, SPY HILL									
7	9	Golden	7.2	—	—	50	2 CR	37.7	51.3
		Regina II	7.4	—	—	51	2 CR	37.7	49.4
		R-1	13.0	—	—	51	2 CR	41.6	49.4
		Arlo	18.4	—	—	53	CR	43.9	48.2
		Polish	18.0	—	—	53	CR	39.9	47.2
Necessary difference—3.15 bushels				Rainfall record incomplete					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
7	2	J. Sinclair Harrison, Moosomin							

WHEAT POOL DISTRICT 8

HARVEY N. POPP, MACNUTT									
8	1	Golden	21.7	103	25	52	CR	40.8	51.2
		Regina II	21.2	103	25	51	2 CR	44.6	52.1
		R-1	27.5	103	27	50	2 CR	45.8	49.9
		Arlo	22.3	79	24	52	CR	43.3	48.9
		Polish	19.8	79	24	53	CR	38.8	47.3
Yield differences not significant			Rainfall—May to August—6.03 inches						
DONALD RURAK, ERWOOD									
8	11	Golden	4.6	109	36	48	3 CR	33.6	37.4
		Regina II	3.4	109	36	46	S'ple CR	32.1	36.0
		R-1	4.5	109	36	48	3 CR	36.8	37.4
		Arlo	2.8	87	24	52	CR	29.3	41.4
		Polish	3.0	87	24	52	CR	31.2	41.3
Yield differences not significant			Rainfall—May to August—9.82 inches						

WHEAT POOL DISTRICT 9

RONALD K. McKAY, GOVAN									
9	5	Golden	18.1	—	32	52	CR	40.4	50.1
		Regina II	22.1	—	32	52	CR	40.3	50.6
		R-1	20.3	—	33	51	2 CR	41.9	49.6
		Arlo	31.9	—	32	54	CR	40.4	48.1
		Polish	34.0	—	32	53	CR	40.7	45.1
Necessary difference—4.53 bushels			Rainfall—May to August—6.27 inches						
BARRY G. MILLER, TUFFNELL									
9	9	Golden	25.6	102	39	52	CR	41.4	51.2
		Regina II	21.8	102	39	52	CR	40.5	51.0
		R-1	21.9	102	39	50	2 CR	41.7	49.0
		Arlo	31.3	84	39	52	CR	38.0	46.5
		Polish	31.3	84	40	54	CR	40.1	44.9
Necessary difference—5.10 bushels			Rainfall—May to August—7.82 inches						

WHEAT POOL DISTRICT 10

PEARL B. JOHNSON, DEMAINE									
10	3	Golden	1.6	—	20	(A)	—	34.9	48.0
		Regina II	1.2	—	20	(A)	—	31.7	47.3
		R-1	1.3	—	20	(A)	—	37.4	45.3
		Arlo	8.8	—	21	52	CR	34.5	45.8
		Polish	8.1	—	21	53	CR	35.9	45.1
Damaged by insects—yields not included in area summary			Rainfall record incomplete						

Wheat Pool District 10—Continued

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Lbs. per measured bushel	Com-mercial grades	% Oil	% Protein
DONALD E. COLLINS, KENASTON									
10	9	Golden	38.9	104	38	51	2 CR	46.5	49.7
		Regina II	37.7	104	37	51	2 CR	45.1	49.5
		R-1	33.7	104	37	51	2 CR	47.5	48.3
		Arlo	40.5	84	32	51	2 CR	43.8	46.5
		Polish	41.4	84	34	52	CR	43.5	45.7
Necessary difference—4.12 bushels			Rainfall—May to August—6.02 inches						

WHEAT POOL DISTRICT 11

DENNIS J. MOIR, BEADLE									
11	6	Golden	2.3	—	22	(A)	—	33.5	47.8
		Regina II	1.9	—	20	(A)	—	29.6	45.2
		R-1	2.1	—	23	(A)	—	36.4	47.0
		Arlo	9.5	—	22	54	CR	35.9	45.7
		Polish	9.5	—	21	54	CR	37.9	44.8
Necessary difference—1.37 bushels				Rainfall—May to August—4.43 inches					
JOHN I. KAMPEN, FISKE									
11	8	Golden	5.3	98	31	52	CR	35.3	49.8
		Regina II	4.3	98	30	52	CR	35.6	50.0
		R-1	5.9	98	33	51	2 CR	38.4	48.4
		Arlo	15.8	76	33	53	CR	39.2	44.4
		Polish	18.7	80	33	53	CR	36.3	43.9
Necessary difference—1.87 bushels				Rainfall—May to August—5.31 inches					

WHEAT POOL DISTRICT 12

GERALD J. KLEIN, DENZIL									
12	6	Golden	—	—	22	—	—	—	—
		Regina II	—	—	16	—	—	—	—
		R-1	—	—	18	—	—	—	—
		Arlo	9.9	—	24	53	CR	42.7	44.9
		Polish	10.6	—	24	53	CR	41.8	43.1
Golden, Regina II, and R-1 destroyed by grasshoppers			Rainfall—May to August—9.87 inches						

WHEAT POOL DISTRICT 13

NORBERT BRECHT, BAY TRAIL									
13	1	Golden	21.3	82	28	50	2 CR	48.3	40.9
		Regina II	18.1	82	28	51	2 CR	45.9	40.1
		R-1	19.5	82	27	48	3 CR	48.3	37.7
		Arlo	21.5	62	30	51	2 CR	47.3	36.6
		Polish	17.3	62	30	51	2 CR	46.8	35.3
Yield differences not significant			Rainfall—May to August—5.42 inches						

WHEAT POOL DISTRICT 14

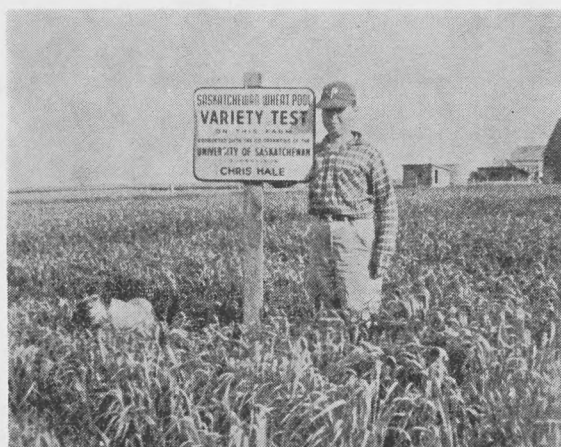
EARL McNAIR, TISDALE									
14	7	Golden	20.4	—	—	52	CR	44.5	45.8
		Regina II	18.4	—	—	52	CR	41.8	44.9
		R-1	18.0	—	—	51	2 CR	43.2	43.9
		Arlo	7.7	—	—	52	CR	41.3	44.4
		Polish	8.6	—	—	52	CR	41.5	43.6
Necessary difference—3.24 bushels			Rainfall—May to August—5.70 inches						
GERALD DOUGLAS, MELFORT									
14	9	Golden	40.4	98	34	52	CR	44.1	43.8
		Regina II	38.0	98	32	52	CR	38.7	43.4
		R-1	37.5	98	29	51	2 CR	41.2	41.8
		Arlo	21.3	83	24	53	CR	41.6	42.9
		Polish	25.1	83	26	53	CR	41.9	42.0
Necessary difference—5.45 bushels			Rainfall—May to August—8.58 inches						

WHEAT POOL DISTRICT 15

Dist.	Sub. Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Lbs. per measured bushel	Com-mercial grades	% Oil	% Protein
L. GRANT PETERS, LAIRD									
15	4	Golden	15.3	99	35	53	CR	41.5	45.7
		Regina II	15.9	99	35	53	CR	44.0	45.7
		R-1	10.2	98	35	53	CR	45.3	45.5
		Arlo	23.5	80	33	52	CR	46.2	43.7
		Polish	24.0	80	33	53	CR	46.1	41.8
Necessary difference—2.35			bushels	Rainfall—May to August—11.31 inches					
FRANCES L. BROWN, CHOICELAND									
15	11	Golden	28.7	89	40	51	2 CR	48.4	42.1
		Regina II	25.1	89	36	52	CR	42.2	41.7
		R-1	29.1	89	32	51	2 CR	51.4	41.3
		Arlo	19.1	69	27	52	CR	43.4	40.4
		Polish	18.2	69	26	52	CR	45.5	38.9
Necessary difference—4.92			bushels	Rainfall—May to August—11.69 inches					

WHEAT POOL DISTRICT 16

GORDON K. JACKSON, SPEERS									
16	2	Golden	13.3	106	28	52	CR	45.2	40.8
		Regina II	12.4	105	28	52	CR	42.8	41.1
		R-1	18.0	102	27	52	CR	45.9	39.6
		Arlo	4.0	84	25	52	CR	41.1	41.0
		Polish	5.4	84	26	52	CR	41.9	40.0
Arlo and Polish damaged by hail— yields not included in area summary					Rainfall—May to August—9.12 inches				
RALPH A. KYLE, DORINTOSH									
16	11	Golden	14.3	104	37	50	2 CR	50.1	33.2
		Regina II	11.1	104	36	51	2 CR	47.1	32.7
		R-1	15.1	99	37	50	2 CR	51.3	32.6
		Arlo	18.3	82	33	52	CR	47.8	34.7
		Polish	17.7	79	33	51	2 CR	46.4	33.3
Necessary difference—3.86 bushels					Rainfall—May to August—12.74 inches				



Chris Hale of Pitman had a heavy stand of grain in his test early in the season.

Acknowledgements

During the year a great number of agencies and individuals contributed in many ways to the success of this testing project. The Saskatchewan Wheat Pool wishes to express appreciation to all those who assisted in any way.

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The Experimental Farm, Regina, Saskatchewan.

The Experimental Farm, Scott, Saskatchewan.

The Experimental Farm, Swift Current, Saskatchewan.

The Forage Crops Division, Canada Department of Agriculture, Saskatoon.

A special word of appreciation is due to more than three hundred young farm men and women who contributed of their time and energy to help make this testing project a success.

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Gordon M. Schmidt, Duval	20	Percy M. Whitford, Nobleville	35
Peter J. Schmidt, Brightsand	52	David V. Wiegers, Humboldt	24
Dennis E. Schuler, Hilda	43	George Wiens, Dalmeny	50
Fritz Schuler, Middle Lake	34	Karen E. M. Wismer, Cut Knife	34
Leonard K. Schwanke, Kuroki	24	James P. Wold, Ravenscrag	16
Murray A. Seidler, Disley	45	Freddie A. Wolff, Liberty	48
Larry Senga, Meath Park	51	Leonard D. Wood, Kandahar	34
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Donald J. Sitter, Meadow Lake	26	"Z"	
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Ahlberg, C. D., Golden Prairie
Akister, E. M., Tuberose
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Anderson, R., Biggar
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Axworthy, D. C., N. Battleford
Ayers, H. D., Fairlight

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Bacon, Chester, Kinistino
Ballard, C. E., Francis
Barber, Ray, Auburnton
Barker, K. H., Killdeer
Barre, Henry, Duck Lake
Bayless, J. N., Lost River
Beattie, E. M., Foam Lake
Beattie, R. B., Kinistino
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Bellamy, D. W., Belbutte
Bennett, Wm. R., Eaton
Berg, B. O., Outlook
Biemer, V. O., Perdue
Birrell, D. G., Fitzmaurice
Bitz, W. G., Allan
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Bligh, C. G., Gerald
Blot, L. G., Dafeo
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Boyle, J. B., Kinistino
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Brilz, M. J., Lake Alma
Brooks, D. C., Rosthern
Brown, E. M., Windthorst
Brown, H. J. C., Readlyn
Bryson, Jack, Unity
Bue, O. A., Frontier
Burden, I. G., Moosomin
Burns, F. G., Heward
Busche, R. W., Imperial

Calanchie, G. W., Calder
Cameron, Neil, Arcola
Campbell, G. M., Avonlea
Campbell, M. W., Fairlight
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Chennells, P. L., Wawota
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Conn, J. K., Aberdeen
Connelly, G. R., Primate
Cooper, L. D. W., Tugaskie
Crane, T. N., Guernsey
Cressman, N. W., Ceylon
Currie, J. A., Bresaylor

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Mountain
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Doeg, H. E. M., Siltan
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Donnelly, W. H., Stoughton
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Doyle, Wm. P., Hoosier
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Duffton, E. F., Fillmore
Dunbar, G. A., North Portal
Dunn, E. H., Burnham
Dunster, R., Blucher

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Ellway, Russell, Big River
Endicott, G. L., Paddockwood
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Evans, David, Dubuc
Ewing, H. T., Wiseton

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Gray, W., Ituna

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Larson, O., Shamrock
Layman, G. H., Speers
Leask, S. J., Marcellin

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Mamer, S., Lake Lenore
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McDonald, M. A., Tadmore
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McWilliams, C. E., Holdfast
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Mitchell, J. C., Dahinda
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Moffat, R. R., Saltcoats
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Mycock, J. S., Humboldt

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Nelson, Clarence, Instow
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Preece, Seville, Bolney
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Proctor, L. G., Mervin
Pryce, H. E., Wawota
Pollock, W. A., Saskatoon
Powell, W. S., Rosetown
Pulfer, D. R., Weyburn

NAMES AND ADDRESSES

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Rahier, J. G., Carlton
Rainnie, N. J., Alida
Rebman, J. J., Verlo
Richards, E. E., Tako
Richards, J. A., Lashburn
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Roberts, H. L., Morse
Roles, John, Bruno
Rudolph, W. M., Gull Lake
Rumball, A. E., Southey
Rusk, M. A., White Fox

Sanders, J. P., Salter
Saul, Miles, Semans
Sawchuk, M. N., Sheho
Schmidt, E. M., Drake
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Simpson, Wesley Paradise Hill
Smith, Albert, Uren
Smith, B. E., Battleford
Smith, F. T., Lashburn
Smith, J. H. G., Delisle

NAMES AND ADDRESSES

Smith, L., Prud'homme
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Stan, George, Dysart
Stenhouse, C. P., Portreeve
Stevenson, W. D., Birch Hills
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Stirton, G. M., Pasqua
Storey, H. A., Girvin
Strachan, G. A., Pleasantdale
Strandlund, A. G., Percival
Stringer, G. V. E., Grenfell
Strouts, L. K., Hanley
Studer, I. W., Lac Pelletier
Sutton, F. J., Marshall

Tanner, Frank, Hinchliffe
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Thompson, C. A., Boharm
Thompson, J. H. C., Arnold,
Carnduff
Trobak, Ole J., Lintlaw
Trumpour, W. A., Govanlock
Tuttle, I., Beverley

Unrau, J., Mullingar
Unterschute, Wm., Melville

NAMES AND ADDRESSES

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Vasseur, Marcel, Claydon
Virgin, Edith L., Foam Lake

Wakefield, C. C., Lilydale
Waldner, Fred L., Langham
Walls, K. W., Aneroid
Wegmiller, C., Leacross
Wehrhahn, G. W., Rockhaven
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Wesson, G. H., Maidstone
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Wiemken, P. A., Yorkton
Wildinson, W. H., Yorkton
Willner, O., Davidson
Wilson, Geo., Herschel
Wilson, Jack, Lonesome Butte
Wilson, Robert, Tugaskie
Witherspoon, J. A., Tregarva
Wood, R. E., Big River
Wozmy, S. G., Calder

Yates, Russel, Storthoaks
Young, J. R. W., Madison
Youzwa, N. J., Wakaw

Zirk, W. J., Luseland

